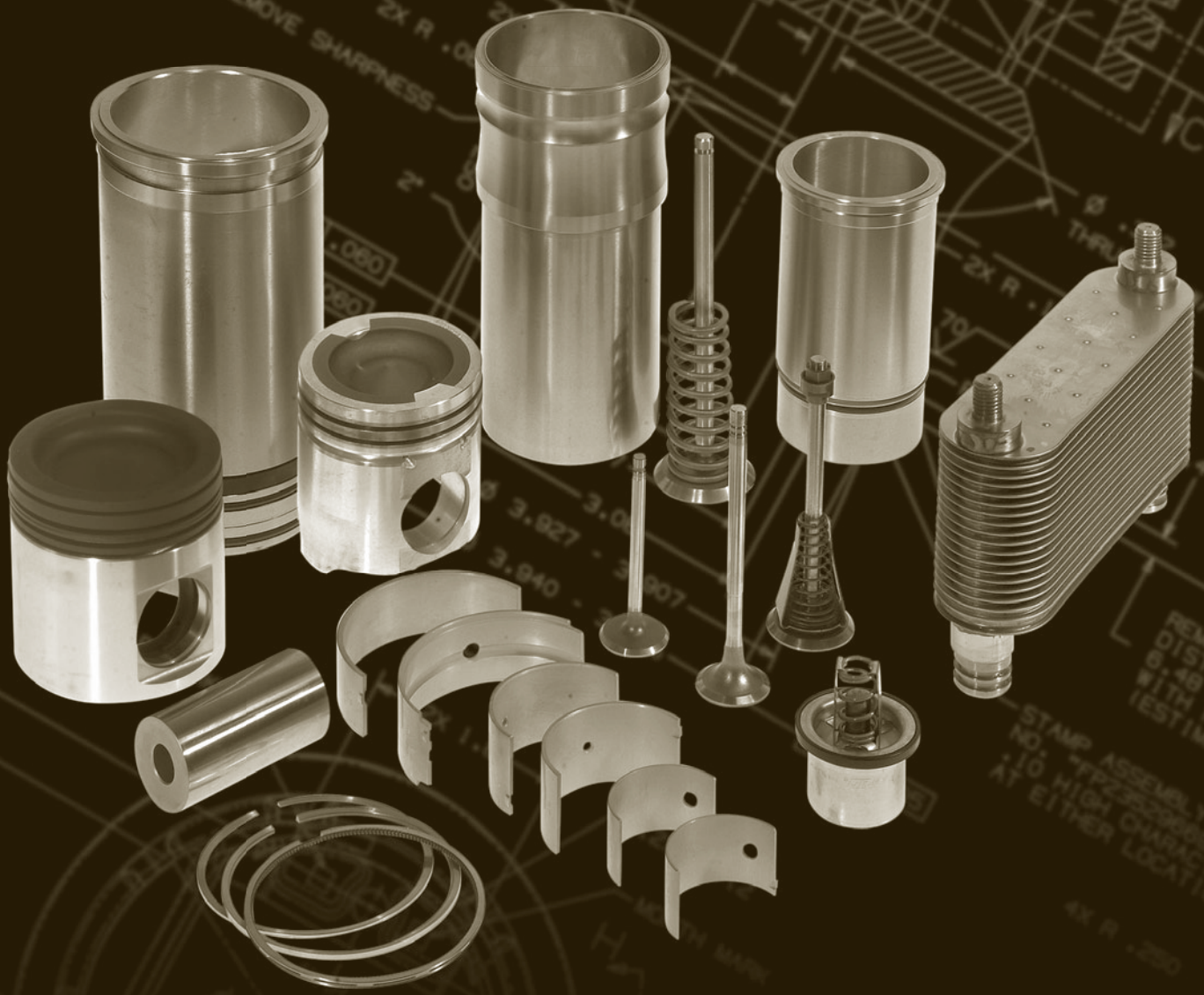
Weatherly Index No. 002

CATALOG NO.
CA0080
NOVEMBER 2012

FP DIESEL®



JOHN DEERE® ENGINES

Replacement Parts Catalog

GLOBAL TECHNOLOGY behind every part

FEDERAL MOGUL®

RELY ON US TO MAXIMIZE PERFORMANCE.









Choosing the right replacement components for a hard working engine is key to ensuring trouble-free performance

FP Diesel components and kits have been proven for years in medium and heavy-duty service engines across the country. These parts are designed using the latest in computer-aided design (CAD) and computer-aided engineering (CAE) technology, and are thoroughly researched to meet the most demanding specifications.

With FP Diesel you get a better solution: premium technologies engineered to address the unique demands placed on all diesel engines – and maximize productivity. It's a rebuild parts choice you can make with confidence.



In-frame and Overhaul Kits | Camshafts | Oil Coolers
Engine Bearings | Engine Oil Seals | Expansion Plugs
Fuel Pumps | Fuel Injector Components | Gaskets
Lifters | Oil Pumps | Piston Rings | Pistons | Push Rods
Rocker Arm Parts | Sleeves | Timing Components
Turbocharger Components | Valvetrain Parts
Water Pumps & Thermostats

Rely on us today for the complete range of FP Diesel replacement engine components!

FP DIESEL®

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John Deere® is a registered trademark of Deere & Company.
All manufacturers' names, numbers, symbols and descriptions are used for reference purposes only, and it does not imply that any part listed is the product of these manufacturers.

FEDERAL MOGUL



Table of Contents

Global Technology Behind Every Part

Using the Catalog

Table of Contents I
How To Use This Catalog II
Abbreviations XVI
Conversion Tables XVIII
Engine Identification III
Engine Kit Bill of Materials 372
General Information II
Numerical List 382
Off Highway
- Engine Index 1-2
- Engine Code Index 2-9
- Model Index 9-37

Industrial
- Engine Index 255
- Engine Code Index 255-257

Marine
- Engine Index 347
- Engine Code Index 347-348

FP Diesel Products & Reference

Engine Bearings XIII
Engine Kits XI
Engine Kits – How To Order XII
Pistons – Heavy Duty XIV
Quick Reference Line Card VII
Sealed Power to FP Diesel Consolidated Engine Kits XIX
Sleeve Assemblies XV
Specialty Gasket Sets XX
- Clutch Housing Gaskets XXI
- Jake Brake Gasket Sets XXI
- O-Ring & Cylinder Liner Sealing Ring Kits XXI

Warranty XXII

The header for each block listed is designed to help you identify the correct engine application. Special information regarding a specific part is located to the right of the part number listing. The ENGINE KIT part number is in the engine listing. The Bill of Materials for the kits are listed in the back of the catalog.

Engine components are grouped in the following order:

1st Cylinder Head and Parts
2nd Intake & Exhaust Manifolds
3rd Camshaft Group
4th Fuel System and Parts
5th Cooling System
6th Engine Block and Parts
7th Crankshaft/Oil Pump and Related Parts
8th Cylinder Components (incl. Rod Bearings, Cylinder Sleeves, Pistons, Plston Rings)

The catalog is sorted as follows::

1st by ENGINE DISPLACEMENT.
2nd by BORE DIAMETER. Engines with the same displacement are sorted by bore diameter.
3rd By USAGE. The engines are listed by Serial Number in increasing sequence and by Early, Mid, and Late production serial numbers.
4th By INDUCTION SYSTEM. Naturally aspirated engines will be listed before Turbocharged engines.

Many of the headers will include serial number listings to provide added assurance that the correct listing is being used.

General Information

This catalog is designed to identify the major components, assemblies and kits used in John Deere engines in construction, agricultural, industrial and marine applications.

The catalog is organized by engine model. Each section is subdivided into groups that coincide with the various engine assemblies and components.

FP Diesel uses a part numbering system similar to that used by John Deere OEM numbers. In most instances, the FP Diesel part number add a “FP-” prefix to the existing core number.

John Deere Part Number R12345
FP Diesel Part Number FP-R12345

All manufacturers numbers, names, symbols and descriptions are used for reference purposes only. It is not implied that any part listed is the product of any specific manufacturer.

All information contained in this catalog is based on the latest data available at the time of printing. Although care has been taken to ensure the accuracy of the data compiled in this catalog, Federal-Mogul does not assume liability for errors or omissions.

IMPORTANT NOTICE
This catalog does not replace the John Deere parts catalogs or service materials. If in doubt, reference your John Deere publications.

To specify the correct part for your particular engine, you must have all the information from the engine data plate, usually affixed to the side of the engine block. In some cases you will need the casting number on the engine block and the casting number on the connecting rod.

300 SERIES: NATURALLY ASPIRATED & TURBOCHARGED

3 Cylinder Models: 3-152, 3-164, 3-179, 3029
4 Cylinder Models: 4-202, 4-219, 4-239, 4-276, 4039, 4045
6 Cylinder Models: 6-303, 6-329, 6-359, 6-414, 6059, 6068

350 SERIES: NATURALLY ASPIRATED, TURBOCHARGED & AFTERCOOLED

3 Cylinder Models: 2.9L Powertech
4 Cylinder Models: 4.5L Powertech
6 Cylinder Models: 6.8L Powertech

400 SERIES: NATURALLY ASPIRATED, TURBOCHARGED & AFTERCOOLED

4 Cylinder Models: 4-270
6 Cylinder Models: 6-404, 6-466, 6076

450 SERIES: NATURALLY ASPIRATED, TURBOCHARGED & AFTERCOOLED

6 Cylinder Models: 6081, 8.1L Powertech

500 SERIES: NATURALLY ASPIRATED, TURBOCHARGED & AFTERCOOLED

6 Cylinder Models: 6-531, 6-619

550 SERIES: NATURALLY ASPIRATED, TURBOCHARGED & AFTERCOOLED

6 Cylinder Models: 10.5L Powertech

650 SERIES: NATURALLY ASPIRATED, TURBOCHARGED & AFTERCOOLED

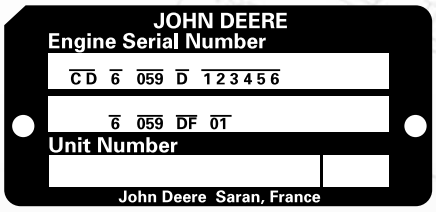
6 Cylinder Models: 12.5L Powertech

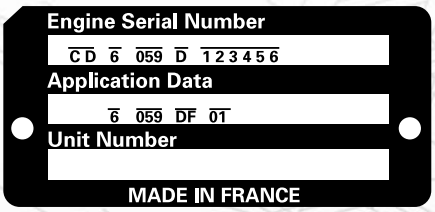
John Deere® Engines are identified by the engine Serial Number Plate. The plate will list the Serial Number, Number of Cylinders, Engine Displacement in Liters or in Cubic Inches, the fuel option, Naturally Aspirated, Turbo, or Turbo Aftercooled (Intercooled). The plate can also have the country in which the engine was manufactured.

There will also be a plate that will list the Engine Option Codes. Each code is a four digit number. The first two numbers of the four digit codes identify a specific group of parts or area of the engine. The other two give a specific option of the parts and their application. If an engine is ordered without a particular component, the last two numbers will be “99”.

There also may be Serial Number breaks listed in the part listings. The FP Diesel listing will refer to this as Code or Codes if this is required in the selection of components. Examples of John Deere Serial Number and Engine Option Code plates are on the pages following.

ENGINE SERIAL NUMBER PLATE (EXC. POWERTECH & POWER UNITS)

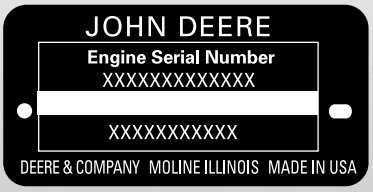




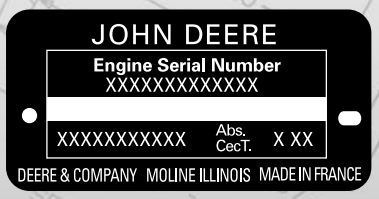


① Designates engine manufacturer	CD – SARAN
② Designates number of cylinders	6
③ Designates total displacement (in Liter)	059 (5.9 Liter)(Bore 4.19" x Stroke 4.33")
④ Designates the type of aspiration	D – Naturally-aspirated Diesel T – Turbocharged Diesel
⑤ Designates engine serial number	123456 (Six Digits)
⑥ Designates engine user	F (OEM)
⑦ Designates the version	001 (Three Digits) 092 (Repower Engine)

ENGINE SERIAL NUMBER PLATE – POWERTECH ENGINES



DUBUQUE OPTION



SARAN OPTION

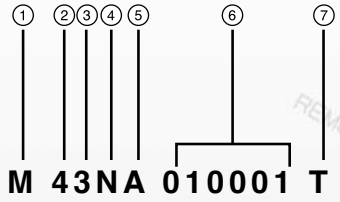


TORREON OPTION

① Designates engine manufacturer	T – John Deere Dubuque works
② Designates number of cylinders and Liters	6068 (6.8 Liter)
③ Designates fuel type or special conditions	HF – Turbocharged natural gas engine
④ Designates engine serial number	123456
⑤ Designates the engine application and aspiration.	6068HFN51 (with Turbocharger) 6068HFN50 (with Turbocharger)

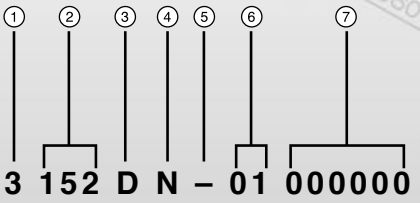
ENGINE SERIAL NUMBER PLATE – POWER UNITS

Each power unit has its own individual serial number. The power unit serial number plate is located near the fuel pump on the right hand side of the cylinder block.



POWER UNITS UP TO SERIAL NUMBER 185199

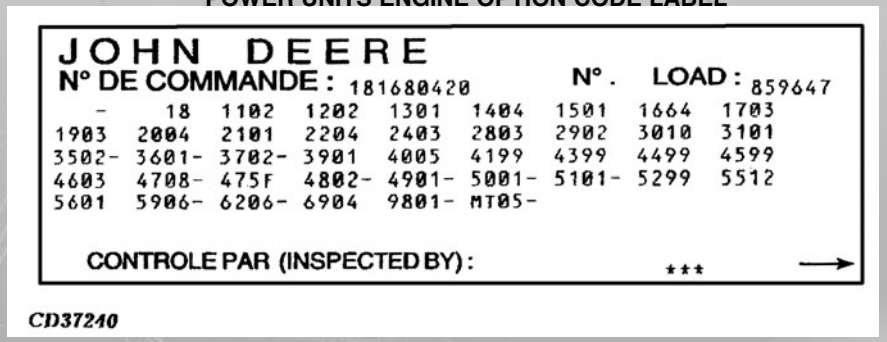
① This first letter designates the engine	M – Engine
② This number designates the series	4 – 135 or 152
③ This number designates the fuel type of engine	1 – Gasoline 3 – Diesel
④ This letter designates the using factory	E – Ottumwa Works N – Des Moines Works
⑤ This letter designates the engine variation and application	A – Initial Design B – First variation C – Second Variation
⑥ These six digits designate the portion of the power unit serial number shown in the serial number column.	
⑦ This letter designates the manufacturer of John Deere Dubuque Works the power unit.	



POWER UNITS FROM SERIAL NUMBER 185200-UP

① This number designates the number of cylinders	3 – Three Cylinder
② These numbers designate the cubic inch displacement	135 – 135 cubic inch (2212 CM3) 152 – 153 cubic inch (2491 CM3)
③ This letter designates the fuel type of engine	D – Diesel G – Gasoline
④ This letter designates the using factory	E – Ottumwa Works N – Des Moines Works
⑤ The dash is used for separation	
⑥ These numbers designate the engine version	01 – Initial Design 02 – First Variation
⑦ These six numbers designate the portion of the power unit serial number shown in the serial number.	

POWER UNITS ENGINE OPTION CODE LABEL


JOHN DEERE
N° DE COMMANDE : 181680420 N°. LOAD : 859647

-	18	1102	1202	1301	1404	1501	1664	1703
1903	2004	2101	2204	2403	2803	2902	3010	3101
3502-	3601-	3702-	3901	4005	4199	4399	4499	4599
4603	4708-	475F	4802-	4901-	5001-	5101-	5299	5512
5601	5906-	6206-	6904	9801-	MT05-			

CONTROLE PAR (INSPECTED BY) : ***

CD37240

Global Technology Behind Every Part



Your complete source for premium replacement parts for John Deere®

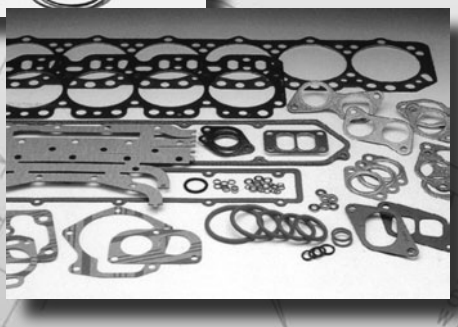
Products Available

FP Diesel offers replacement parts for the following John Deere® engines:

300 SERIES
400 SERIES
500 SERIES
2.9D Powertech
2.9T Powertech
4.5D Powertech
4.5T Powertech
6.8D Powertech
6.8T Powertech
8.1T Powertech
9.0L Powertech
10.5L Powertech
12.5L Powertech

See the matrix on the next page for a complete listing of parts and individual engine models.





From in-frame engine kits and cylinder kits to a full line of engine and sealing parts, FP Diesel components offer the best technologies for replacement parts for heavy-duty engine applications.

24-hour online ordering is available through the Federal-Mogul *e*Connect system. Plus, your FP Diesel parts are backed by a comprehensive warranty program.

Choose FP Diesel for the powertrain technologies that thrive in today's hardest working engines. OE innovation and aftermarket solutions — that's the FP Diesel exclusive advantage.

When you demand precision-engineered replacement parts for John Deere® and you need them fast, turn to FP Diesel, the global leader in heavy-duty powertrain components.

FP DIESEL



Global Technology Behind Every Part

Replacement Parts for John Deere® Available from FP Diesel

FP Diesel offers a broad range of in-frame and overhaul kits and related components for 300 Series, 400 Series, 500 Series, 2.9D Powertech, 2.9T Powertech, 4.5D Powertech, 4.5T Powertech, 6.8D Powertech, 6.8T Powertech, 8.1T Powertech, 9.0L Powertech, 10.5L Powertech, and 12.5L Powertech engines.

Engine	300 S*	400 S**	500 S***	2.9D PT	2.9T PT	4.5D PT	4.5T PT	6.8D PT	6.8T PT	8.1T PT	9.0L PT	10.5L PT	12.5L PT
Main & Rod Bearings	•	•	•	•	•	•	•	•	•	•	•	•	•
Camshafts		•											
Camshaft Bushings	•	•	•	•	•	•	•	•	•	•	•	•	•
Crankshafts	•	•											
Crankshaft Seals	•	•	•	•	•	•	•			•	•	•	•
Cylinder Kits	•	•	•	•	•	•	•	•	•	•	•	•	•
Gasket Sets	•	•	•	•	•	•	•	•	•	•	•	•	•
In-Frame Engine Kits	•	•	•	•	•	•	•	•	•		•	•	•
Overhaul Kits	•	•	•										
Liners	•	•	•	•	•	•	•	•	•	•	•	•	•
Pistons	•	•	•	•	•	•	•	•	•	•	•	•	•
Piston Rings	•	•	•	•	•	•	•	•	•	•	•	•	•
Rocker Cover Gaskets	•	•	•	•	•	•	•	•	•	•	•	•	•
Pan Gaskets	•	•	•	•	•	•	•	•	•	•	•	•	•
Head Gaskets	•	•	•	•	•	•	•	•	•	•	•	•	•
Valvetrain	•	•	•	•	•	•	•			•	•	•	•
Oil Coolers		•											
Rod Bushings	•	•	•			•	•	•	•	•	•	•	•
Rod Bolts	•	•	•	•	•	•	•	•	•	•	•	•	•
Thermostats	•	•	•			•	•			•		•	•
Water Pump Overhaul Kits	•	•	•	•	•								

* 300 Series Engines: 152, 202, 303, 164, 219, 329, 179, 239, 359, 3029, 4039, 6059, 276, 414, 4045, 6068
** 400 Series Engines: 270, 404, 466, 6076
*** 500 Series Engines: 531D, T, A; 619T, A

The Complete Power Package

Restoring the power and durability of a large-displacement diesel or natural gas engine requires the best replacement engine technologies and components. Having an extensive commercial-engine OE portfolio is absolutely imperative. Being a global manufacturer means investing in advanced technologies and on a daily basis working to create engine and sealing system solutions that address the dynamic forces found in each generation of engines.

Federal-Mogul is instrumental in the development of every new generation of diesel engine technology, with a proven commitment to best-in-class product performance and reliability. The company's global research centers are pioneering the use of new materials and designs that will become tomorrow's industry standards. Consistent deployment of leading-edge technologies across this extensive research network ultimately means better designs for replacement applications.

FP DIESEL

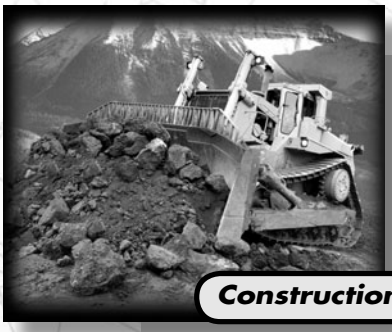
FP Diesel Philosophy

Global Technology Behind Every Part

FP Diesel is the industry's leading brand of premium heavy-duty replacement engine parts and gaskets, providing total engine system solutions for such well-known brands as Case,® Caterpillar,® Cummins,® Detroit Diesel,® IH/Navistar,® John Deere,® Komatsu,® Mack,® Waukesha® and White Superior®.

Federal-Mogul maintains a steadfast commitment to unsurpassed product quality and customer service. We serve construction, marine, agricultural, mining, gas compression, trucking and industrial markets around the globe. As the global leader in heavy-duty powertrain systems, Federal-Mogul is instrumental in the development of every new generation of gasoline and diesel engine technology. When you choose FP Diesel, you get unparalleled global engineering and manufacturing resources built into every product.

Today's medium and heavy duty commercial markets demand performance. Performance means precision-engineered parts that meet your demanding specifications; and are backed by a team of knowledgeable customer service representatives who can provide technical information and assistance; computerized order and inventory tracking for fast and accurate order fill; unprecedented warranty programs and a company-wide commitment to customer satisfaction.



Construction



Agriculture



On-Highway



Marine

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Manufacturing

Global Technology Behind Every Part



Precise manufacturing and fabricating techniques, rigorous quality control procedures, utilization of the latest CAD technology and innovative solutions to industry challenges – coupled with Federal-Mogul's global manufacturing capabilities – have established FP Diesel as the industry leader in the medium and heavy duty commercial market.

FP Diesel applies stringent quality control standards with expertly skilled technicians supervising the manufacturing process in all phases to ensure that our parts will perform and last.

FP Diesel is a military approved supplier for the 53 Series Detroit Diesel engine. But the parts we supply for the 53 aren't the only ones that go through government testing. Every FP Diesel part must pass through high-level quality control. Plus, every part is tracked throughout the entire distribution process.

Customer Service

FP Diesel customer service representatives are among the most experienced and knowledgeable in the industry, with hands-on medium and heavy-duty experience and in-depth knowledge of engine parts and applications. With one call to your representative you'll have answers to any product, technical, order processing, billing, warranty, pricing, order tracking or availability questions you may have. Customer service that goes the extra mile also means you not only get the parts you need, but expert assistance from a person who knows the market.



Plus, our computerized inventory system allows us to ship orders promptly anywhere in the world, while our easy-to-use cataloging system makes ordering FP Diesel parts fast and simple. For the parts and information you need, count on FP Diesel to go the extra mile.

Coverage

Global Technology Behind Every Part

The FP Diesel product offering is a comprehensive line of diesel and natural gas engine replacement parts that provide all the coverage necessary to meet your heavy-duty engine rebuilding needs. FP Diesel also offers a full line of gaskets and elastomeric products. For more specific information, please refer to our full-line catalogs, which are engine and machine specific and follow OEM format. To ensure exact part number replacement, these catalogs reference OEM part numbers and features technical information relating to the specific engine being serviced.



Products and Catalogs

Caterpillar
Replacement Caterpillar products cover 3200, 3300, 3400, 3500, D Series and G Series engines. This coverage extends from cylinder heads, fuel injection, cam and crankshafts, cylinder kits, valvetrain and eletrical to engine bearings, transmission, hydraulic gasket sets and more. **Refer to FP Diesel catalog No. CA0010 (parts) and CA0020 (gaskets).**

Cummins
FP Diesel provides replacement parts coverage for V378, V504, V555, Small Vee Engines, V/VT 903, 855 Series, N14, L10, B Series, C Series, V/VT1710, N743 and K/KTA 19-, 38- and 50-liter engines, as well as components for Jacobs® brakes. **Refer to FP Diesel catalog No. CA0030.**

Detroit Diesel
FP Diesel offers the most complete coverage in the replacement parts industry for Detroit Diesel, with an extensive line of components and kits for the 8.2-liter, 53 Series, 60 Series, 71 Series, 92 Series and 149 Series engines. **Refer to FP Diesel catalog No. CA0040 for 2-cycle engines or FP Diesel catalog No. CA0045 for 4-cycle engines.**

John Deere
FP Diesel offers a broad range of in-frame and complete overhaul kits and related components for 300 Series, 400 Series, 500 Series and Powertech engines. **Refer to FP Diesel catalog No. CA0085.**

Komatsu
Extensive coverage for Komatsu S6D155 and SA6D155 engines, as well as a full line of replacement parts for

Komatsu (continued)
Komatsu machines using Cummins N743, KT/KTA 19-, 38- and 50-liter engines, and the Cummins 855. **Refer to FP Diesel catalog No. CA0085.**

Mack
FP Diesel has a broad line for Mack, early ENDT 675 and 676 engines, as well as parts for later EM6 with both two- and four-valve head configurations. **Refer to FP Diesel catalog No. CA0060.**

International/Navistar
International coverage extends from the 6.9 and 7.3 liter, DT-360 and DT-466 through the 9.0 liter engine. **Refer to FP Diesel catalog No. CA0050**.
For agricultural applications, FP Diesel also services the DT-414 and DT-436 Case/I.H. engines. **For industrial and agricultural applications, refer to FP Diesel catalog No. CA0188.**

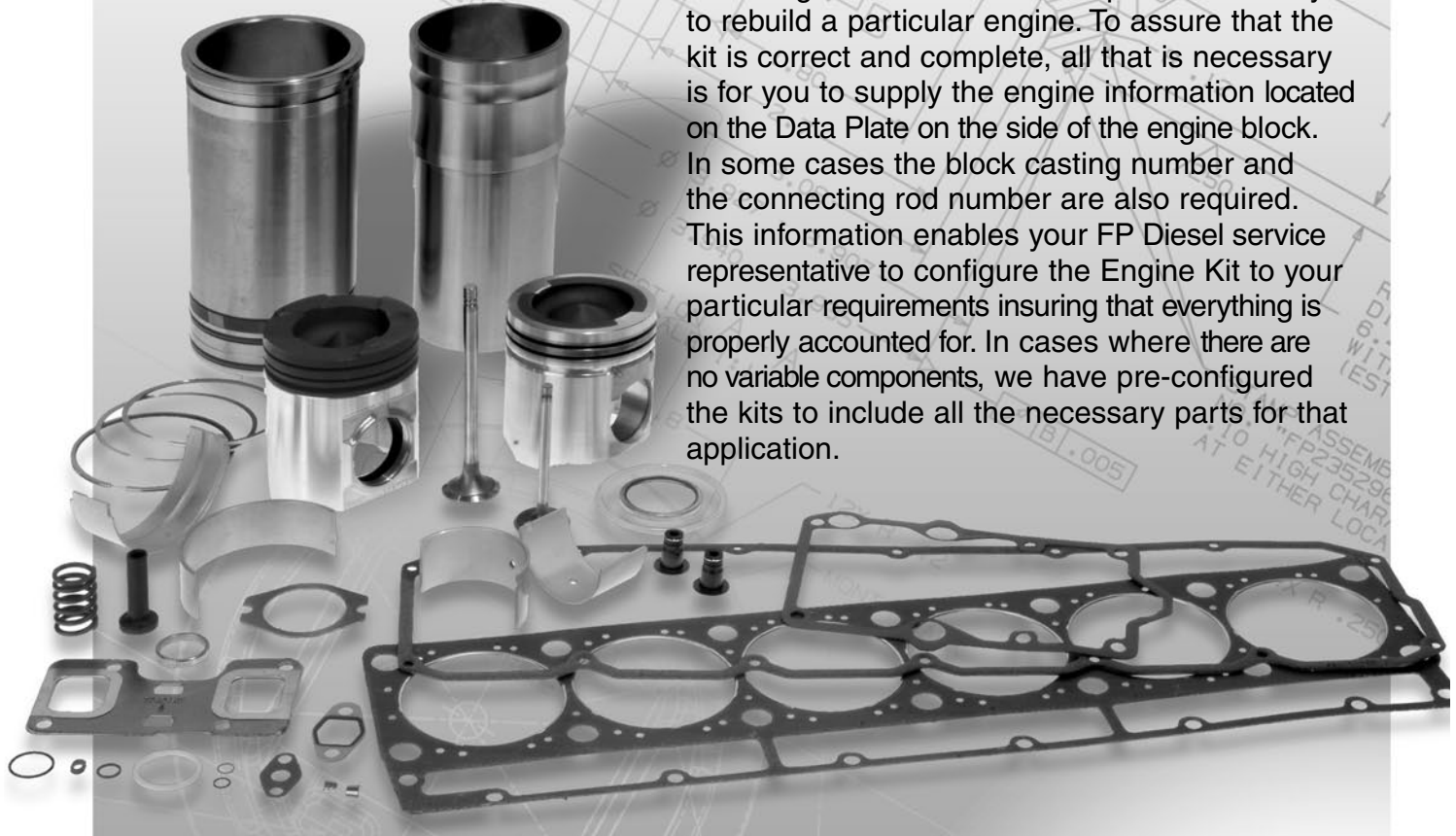
Case
FP Diesel has a complete range of kits and components for the 188, 207, 301, 366, 451 and 504-Case engines along with the 4-390 & 4T-390, 6-590 & 6T-590, 6T-830 & 6TA-830, LTA 10 and NTA 855 B/C III Cummins engines. **Refer to FP Diesel catalog No. CA0095.**

Commercial, Ag, Industrial Engines
The FP Diesel CA0188 catalog includes all the engine manufacturers not covered in the FP Diesel name-plate specific catalogs. Replacement engine components for Allis-Chalmers, Bedford, Bendix-Westinghouse, Briggs & Stratton, Buda, Case Tractor, Chevrolet MD Truck, Climax, Continental, Dodge MD Truck, Ford Tractor, GMC MD Truck, Hercules, IHC Tractor, Isuzu Forklift, KHD, Kohler, LeRoi, Massey Ferguson, Mercedes, Mazda Forklift, Minneapolis-Moline, Mitsubishi, Novo, Oliver, Perkins, Superior, Thermo-King, Volvo, Waukesha, White and Wisconsin are included in the **FP Diesel CA0188 catalog.**

The FP Diesel Engine Kit program allows you to select a kit tailored to the job at hand. Whether performing a complete overhaul or in-frame repair, FP Diesel engine kits contain all the necessary components to complete the rebuild job. This comprehensive program provides you with the following:

- Concise application information
- One price look-up
- A full complement of oversizes and undersizes
- Master kits that include full gasket sets

How To Specify FP Diesel Engine Kits



Many FP Diesel engine kits have several variations in components that are available depending on the specific engine. Overhaul Kits are designed to contain all the parts necessary to rebuild a particular engine. To assure that the kit is correct and complete, all that is necessary is for you to supply the engine information located on the Data Plate on the side of the engine block. In some cases the block casting number and the connecting rod number are also required. This information enables your FP Diesel service representative to configure the Engine Kit to your particular requirements insuring that everything is properly accounted for. In cases where there are no variable components, we have pre-configured the kits to include all the necessary parts for that application.

Global Technology Behind Every Part

The FP Diesel® Engine Kit program allows you to select a kit tailored to the job at hand. Whether performing a complete overhaul or in-frame repair, our engine kits contains all of the necessary components to complete the rebuild.

STEP*ONE*

Gather the necessary engine information

To make sure you order and receive the exact kit you need, be sure to have these important answers for each major engine nameplate:

STEP*TWO*

Consult the FP Diesel print or online catalog

Federal-Mogul offers the industry's most convenient and up-to-date product lookup tools through the powerful ***www.FMe-cat.com*** website. Simply choose your region and then click on the "Commercial, Ag and Industrial" link. You can use the fast, easy electronic lookup and interchange tools or click "Digital Catalogs" to access "virtual" print catalogs.

STEP*THREE*

Call us today!

Call **800-237-7425** to place your order. Before you know it, your custom engine overhaul kit will be delivered!

Navistar®
Engine
Serial Number
Piston Number
DT-466 – Valve Cover or Crankcase-Mounted Breather
Crank Size
In-Frame Gasket Set or Complete Gasket Set
Caterpillar®
Engine/Machine
Serial & Arrangement Number
3200 Series – Std. or Oversize Pistons and Ring Sets (2- or 3-Ring)
Crank Size
In-Frame Gasket Set or Complete Gasket Set
Cummins®
Engine
CPL or Piston Number
Big or Small Cam
Liner Size
Crank Size
In-Frame Gasket Set or Complete Gasket Set
Head Set w/Std. Water Grommets or 0.010" Oversize
Detroit Diesel®
Engine
Model & Serial Number
Turbo or Natural
Trunk or Crosshead Piston
Liner Size
Crank Size
Head Set & Pan Gasket or Complete Overhaul Gasket Set
If Complete, Crank Seals Not Included – Need Them
Steel or Aluminum Valve Covers
Mack®
Engine
Model Number
Piston Number
Liner Size
Crank Size
In-Frame Gasket Set or Complete Gasket Set

Engine Bearing Material Selection

When selecting engine bearings, most rebuilders concentrate on getting the proper clearances and maintaining adequate oil pressure. Durability is expected from any bearing chosen, and the advantages of different bearing materials may not be considered. If engine operating conditions are considered and bearing materials chosen accordingly, the likelihood of engine longevity is greater. No single material can be correct for every application. FP Diesel engine bearings are equal to or better than the original equipment specifications for material and design. We also provide alternatives to address unique problems and special needs.

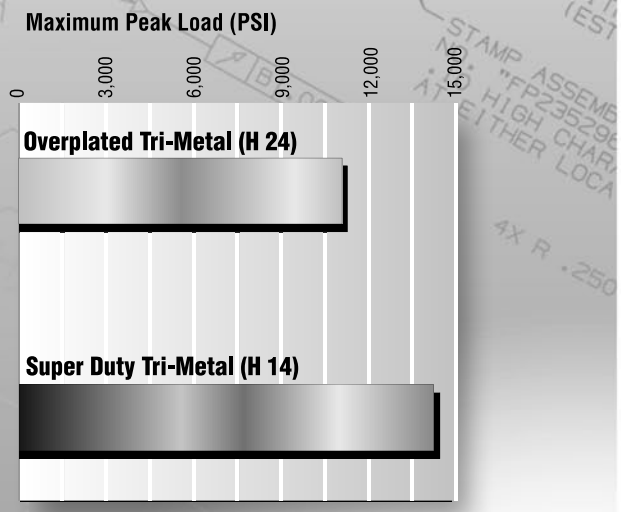
In heavy duty applications there are a number of materials that will do an excellent job. Each alloy has advantages in terms of resistance to corrosion, rate of wear and fatigue strength. The latter characteristic is critical in engines that operate under high loads, generate considerable heat and may be subjected to occasional detonation.

Bi-Metal Aluminum Alloys – Plated and Unplated

Diesel fuels, moisture, and engine "blow-by" introduce many contaminants into the crankcase. Aluminum engine bearing materials provide outstanding resistance to the corrosive effects of these substances, and are the product of choice for most current original equipment vehicle manufacturers. The modern bi-metal aluminum engine bearing contains silicon. As a result of using silicon, the alloy resists seizure and dramatically reduces or eliminates bearing wear. This contributes to today's extended engine life. Aluminum is often the best material for a daily driven vehicle. Adding an overplate to an aluminum engine bearing will further enhance embedability and conformability. Continued efforts to remove lead from our environment guarantee that aluminum will become the preferred engine bearing material for most applications.

Tri-Metal Alloys

Tri-Metal engine bearings, such as our H-14 and H-24 alloys, have excellent fatigue resistance, but are less resistant to corrosion damage than aluminum bearings. These bearing materials are accepted by engine builders worldwide, and are proven to be reliable in a wide range of uses. While OE manufacturers are moving to aluminum for their needs, many rebuilders still specify the tri-metal bearings for older engines.



Heavy Duty Pistons

Global Technology Behind Every Part

FP Diesel heavy duty pistons are designed and produced for severe operating conditions. Federal-Mogul is one of the world's leading manufacturers of heavy duty pistons offering one and two-piece designs including aluminum, articulated, cast iron and steel materials. For severe and high load applications, FP Diesel pistons include a metallurgically bonded NI-resist insert in the top and in some cases, the second ring groove. The NI-resist insert minimizes groove wear and reduces pound-out from the compression ring. Anodized heads and graphite-coated skirts offer additional durability in severe applications. Federal-Mogul also utilizes an in-house, patented magnesium-phosphate coating to reduce the piston corrosion caused by high-sulfate diesel fuels and break-in wear on problematic applications.

We design our heavy duty pistons using the latest in computer aided design (CAD) software. Each application is thoroughly researched to ensure the proper dimensional and metallurgical requirements. And since we also design and manufacture cylinder liners and piston rings, our engineers can make sure each piston we develop provides optimum performance as part of the "power-cylinder" system.



Cylinder sleeves are produced by Federal-Mogul in a QS9000 registered facility complete with casting, induction hardening, machining, measurement and design capabilties. We start with raw castings produced on a state-of-the-art molding line specifically designed for the manufacture of static cast cylinder liners. The static castings produced by our foundry have a very consistent microstructure and superior scuffing resistance.

Certain applications are induction hardened or thru-hardened to enhance the wear characteristics and strength of the liner. Hardened liners are typically used in engines highly susceptible to dirt contamination, such as construction or agricultural applications.

Machining is performed on modern CNC equipment to ensure dimensional stability and exacting tolerances. Cylinder liners are typically finish honed to generate a plateau finish. The plateau finish promotes rapid ring seating during break-in while providing a long-wearing sealing surface.

FP Diesel offers sleeves for wet, dry and repair applications. Sleeve assemblies or kits include the sleeve, piston, piston pin and lock rings, piston rings and sealing rings.





Abbreviations Used

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ABBREVIATION	DESCRIPTION
&	And
2WD	Two Wheel Drive
4WD	Four Wheel Drive
A.I.R.	Air Injector Reactor
A/C	Air Conditioning
A/R	As Required
A/T	Automatic Transmission
ABS	Anti-lock Brake System
AC	Alternating Current
Acc.	Accessory
Adj.	Adjustable
Adv.	Advance
Aft.	After
Alt.	Altitude
Alum.	Aluminum
Amp.	Ampere
AOD	Automatic Overdrive
Appl.	Application
Approx.	Approximately
Asst.	Assist
Assy.	Assembly
ATV	All Terrain Vehicle
Auto.	Automatic
Auto. Trans.	Automatic Transmission
Aux.	Auxiliary
Avail.	Available
Avg.	Average
AWD	All Wheel Drive
Bal.	Balance
Batt.	Battery
Bbl.	Barrel
Bbl. Carb.	Barrel Carburetor
Bef.	Before
Brg.	Bearing
Brkt.	Bracket
C	Celsius
C.I.	Cast Iron
C.R.	Compression Ratio
C/L	Centerline
Calib.	Calibration
Calif.	California
Cam	Camshaft
Can.	Canada
Carb.	Carburetor
Cat.	Catalytic
cc	Cubic Centimeter
CCW	Counter Clockwise
CD	Compression Distance
CFFI	Cross Fire Fuel Injection
CFI	Central Fuel Injection
CFM	Cubic Feet per Minute
CID	Cubic Inch (Displacement)
Cld.	Cooled
Clg.	Cooling
Clr.	Cooler
cm	Centimeter
Cntr. Bore	Counter Bore

ABBREVIATION	DESCRIPTION
Compl.	Complete
Con. Rod	Connecting Rod
Cruise	Cruise Control
Ctr.	Center
CW	Clockwise
Cyl.	Cylinder
Cyl. Hd.	Cylinder Head
DC	Direct Current
Deg.	Degree
DFI	Digital Fuel Injection
DI	Direct Injection
Dia.	Diameter
Dim.	Dimension
Dir. Inj.	Direct Injection
Disc.	Discontinued
Dist.	Distributor
DOHC	Dual Overhead Camshaft
Dr.	Door or Drive
E.E.C.	Electronic Engine Control
E.I.S.	Electronic Ignition System
Ea.	Each
Ecc.	Eccentric
ECM	Electronic Computer Module
ECM	Electronic Control Module
ECM	Engine Control Module
Econ.	Economy
ECS	Electronic Controlled Spark
EFI	Electronic Fuel Injection
Elec.	Electric
Emis.	Emission
Eng.	Engine
Equip.	Equipment
Etc.	Et Cetera
Exc.	Except
Exh.	Exhaust
Exp.	Export
Ext.	Exterior
Ext.	External
F	Fahrenheit
Fed.	Federal
FI	Fuel Injection
Flex.	Flexible
Flg.	Flange
Flwr.	Follower
Frg.	Forged or Forging
Frt.	Front
FWD	Front Wheel Drive
Gal.	Gallon
Gas	Gasoline
GPH	Gallons Per Hour
GPM	Gallons Per Minute
Grv(s)	Groove(s)
Gskt.	Gasket
GVW	Gross Vehicle Weight
H/D	Heavy Duty
Hd.	Head
HEI	High Energy Ignition
Hi	High



ABBREVIATION	DESCRIPTION
Hi Alt.	High Altitude
Hi-Perf.	High Performance
Hi-Temp.	High Temperature
HO	High Output
Horiz.	Horizontal
HP	Horsepower
HSC	High Swirl Combustion
Hyd.	Hydraulic
I/C	Intercooler
I.D.	Identification
ID	Inside Diameter
IDI	Indirect Injection
In. Frm.	In Frame
in.	Inch
Incl.	Includes
Ind.	Industrial
Inj.	Injection
Int.	Intake
Inter.	Intermediate
L	Liter
L.H.	Left Hand
L/D	Light Duty
Lgth.	Length
LPG	Liquid Propane Gas
M/D	Medium Duty
M/T	Manual Transmission
Man.	Manual
Man. Trans.	Manual Transmission
Max.	Maximum
Mech.	Mechanical
MFI	Multi-Port Fuel Injection
Min.	Minimum
mm	Millimeters
MPH	Miles Per Hour
Mtl.	Material
N/A	Not Available
N/R	Not Required
Nat.	Natural
Nat. Asp.	Naturally Aspirated
Neg.	Negative
Neut.	Neutral
No.	Number
Nom.	Nominal
Norm.	Normal
O.A.L.	Overall Length
O.E.	Original Equipment
O/D	Overdrive
O/S	Oversize
Obs.	Obsolete
OD	Outside Diameter
OEM	Original Equipment Manufacturer
OHC	Overhead Cam
OHV	Overhead Valve
Opt.	Optional
Orig.	Original
oz.	Ounce
P. T.O.	Power Take Off
P/S	Power Steering

ABBREVIATION	DESCRIPTION
Pass.	Passenger
Pc(s).	Piece(s)
PCV	Positive Crankcase Ventilation
Perf.	Performance
Pkg.	Package
Pos.	Positive
Prem.	Premium
Pri.	Primary
PSI	Pound Per Square Inch
Pwr.	Power
Qtr.	Quarter
Qty.	Quantity
R.B.P.	Ring Below Pin
R.H.	Right Hand
Ref.	Reference
Reg.	Regular
Reman.	Remanufactured
Req'd	Required
Rev.	Revision
Rev. Rot.	Reverse Rotation
Rlr.	Roller
RMB	Rear Main Bearing
Rot.	Rotation
RPM	Revolutions Per Minute
Rr.	Rear
RWD	Rear Wheel Drive
S/C	Supercharged
Seal. Rings	Sealing Rings
Ser.	Serial or Series
Ser. No.	Serial Number
SFI	Sequential Fuel Injection
Slv.	Sleeve
SOHC	Single Overhead Cam
Spd.	Speed
Spec.	Special
Sta.	Station
Std.	Standard
Sys.	System
T/C	Turbocharged
Tach	Tachometer
TBI	Throttle Body Injection
Temp.	Temperature
TPI	Tuned Port Injection
Trans.	Transmission
Trk.	Truck
TTY	Torque-to-Yield
TURBO	Turbocharged
U/S	Under Size
Veh.	Vehicle
VIN	Vehicle Identification Number
Vlv.	Valve
VSS	Valve Stem Seal
w/	With
w/o	Without
Wagon	Station Wagon
Wt.	Weight



Conversion Tables

Inches to Millimeters

.001	0.0254mm
.002	0.0508mm
.003	0.0762mm
.004	0.1016mm
.005	0.1270mm
.006	0.1524mm
.007	0.1778mm
.008	0.2032mm
.009	0.2286mm
.010	0.2540mm
.020	0.5080mm
.030	0.7620mm
.040	1.0160mm
.050	1.2700mm
.060	1.5240mm
.070	1.7780mm
.080	2.0320mm
.090	2.2860mm
.100	2.5400mm

Millimeters to Inches

0.025mm	.000984
0.050mm	.001968
0.075mm	.002952
0.100mm	.003937
0.125mm	.004921
0.150mm	.005905
0.175mm	.006889
0.200mm	.007874
0.225mm	.008858
0.250mm	.009842
0.500mm	.019685
0.750mm	.029527
1.000mm	.039370
1.250mm	.049212
1.500mm	.059055
1.750mm	.068897
2.000mm	.078740
2.250mm	.088582
2.500mm	.098425

Conversion Formulae

28.349 gm./oz. 453.592 gm./lb.
16.387 cc/in.^{3} 61.024 in.^{3}/L
3.785 L/U.S. gal. 4.546 L/Imp. gal. 0.264 U.S. gal./L 0.220 Imp. gal./L

Decimal Equivalents

8THS.	16THS.	32NDS.	64THS.	DECIMALS	mm
			1/64	.015625	.396875
		1/32		.031250	.793750
			3/64	.046875	1.190625
	1/16			.062500	1.587500
			5/64	.078125	1.984375
		3/32		.093750	2.381250
			7/64	.109375	2.778125
1/8				.125000	3.175000
			9/64	.140625	3.571875
		5/32		.156250	3.968750
			11/64	.171875	4.365625
	3/16			.187500	4.762500
			13/64	.203125	5.159375
		7/32		.218750	5.556250
			15/64	.234375	5.953125
1/4				.250000	6.350000
			17/64	.265625	6.746875
		9/32		.281250	7.143750
			19/64	.296875	7.540625
	5/16			.312500	7.937500
			21/64	.328125	8.334375
		11/32		.343750	8.731250
			23/64	.359375	9.128125
3/8				.375000	9.525000
			25/64	.390625	9.921875
		13/32		.406250	10.318750
			27/64	.421875	10.715625
	7/16			.437500	11.112500
			29/64	.453125	11.509375
		15/32		.468750	11.906250
			31/64	.484375	12.303125
1/2				.500000	12.700000
			33/64	.515625	13.096875
		17/32		.531250	13.493750
			35/64	.546875	13.890625
	9/16			.562500	14.287500
			37/64	.578125	14.684375
		19/32		.593750	15.081250
			39/64	.609375	15.478125
5/8				.625000	15.875000
			41/64	.640625	16.271875
		21/32		.656250	16.668750
			43/64	.671875	17.065625
	11/16			.687500	17.462500
			45/64	.703125	17.859375
		23/32		.718750	18.256250
			47/64	.734375	18.653125
3/4				.750000	19.050000
			49/64	.765625	19.446875
		25/32		.781250	19.843750
			51/64	.796875	20.240625
	13/16			.812500	20.637500
			53/64	.828125	21.034375
		27/32		.843750	21.431250
			55/64	.859375	21.828125
7/8				.875000	22.225000
			57/64	.890625	22.621875
		29/32		.906250	23.018750
			59/64	.921875	23.415625
	15/16			.937500	23.812500
			61/64	.953125	24.209375
		31/32		.968750	24.606250
			63/64	.984375	25.003125
1				1.000000	25.003125

Sealed Power to FP Diesel Consolidated Engine Kits

Global Technology Behind Every Part

FP Diesel has consolidated the Commercial Engine part numbers and many of the Sealed Power Engine Kits. This is a list of the John Deere Sealed Power Tractor kits that have been replaced by FP Diesel Engine Kits. You will find that the FP Diesel Kit will contain the same basic components as the Sealed Power Kit and the FP Diesel Kit will have additional components gaskets, oil seal kit, connecting rod bolts, engine bearings and all cylinder kits pertaining to that particular engine family.

Sealed Power Kit No.		FP Diesel Kit No.	Sealed Power Kit No.		FP Diesel Kit No.
KST-2416 F	Replaced By	**FP-404DE-OHK**	**KST-2520 A**	Replaced By	**FP-404DL-OHK**
KST-2416 G	Replaced By	**FP-404DE-OHK**	**KST-2596 C**	Replaced By	**FP-404DN-OHK**
KST-2502 A	Replaced By	**FP-152EORL-OHK**	**KST-2633 A**	Replaced By	**FP-276DSP-OHK**
KST-2503 A	Replaced By	**FP-202EORL-OHK**	**KST-2634 A**	Replaced By	**FP-276T-OHK**
KST-2503 C	Replaced By	**FP-152LOHK**	**KST-2634 C**	Replaced By	**FP-414T-OHK**
KST-2515 A	Replaced By	**FP-202L-OHK**	**KST-2636 A**	Replaced By	**FP-414D-OHK**
KST-2515 C	Replaced By	**FP-164M-OHK**	**KST-2640 A**	Replaced By	**FP-466TAE-OHK**
KST-2515 D	Replaced By	**FP-219M-OHK**	**KST-2688 A**	Replaced By	**FP-135GE-OHK**
KST-2516 A	Replaced By	**FP-329M-OHK**	**KST-2688 C**	Replaced By	**FP-180GL-OHK**
KST-2516 C	Replaced By	**FP-164L-OHK**	**KST-2689 A**	Replaced By	**FP-135GE-OHK**
KST-2516 D	Replaced By	**FP-329L-OHK**	**KST-2689 C**	Replaced By	**FP-180GE-OHK**
KST-2516 E	Replaced By	**FP-219L-OHK**	**KST-2716 A**	Replaced By	**FP-619M-OHK**



Specialty Gasket Sets

Global Technology Behind Every Part

FP Diesel Specialty Gasket Sets are created with additional gaskets necessary to complete the installation of specific components. These gasket sets are different from the OE configurations to include gaskets or seals that are not usually found combined in OE sets.

SERIES	PART NO.	ENGINE	DESCRIPTION
300	**FP-RE37715-WS**	276D, T & 4045	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	**FP-RE38555-WS**	414, 6068	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	**FP-RE38558-WS**	202	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	**FP-RE38568-WS**	303	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	**FP-RE38570-WS**	152	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	**FP-RE38857-WS**	219, 239, 4039	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	**FP-RE38858-WS**	359, 6059	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	**FP-RE38859-WS**	329	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	**FP-RE50978-WS**	164, 179, 3029	Gasket Set, Complete Overhaul w/Front and Rear Seals
300	**FP-4039A**	4039, 6059	Gasket Kit, Aftercooler
300	**PG100FS**	100 (L2)	Gasket Set, Full Set
300	**PG100HS**	100 (L2)	Gasket Set, Head Gasket Set
300	**PG113FS**	113 (L2)	Gasket Set, Full Set
300	**PG115FS**	115, 145, 165	Gasket Set, Full Set
300	**PG152S**	152	Gasket Set, In-frame Overhaul
300	**PG164S**	164, 179, 3029	Gasket Set, In-frame Overhaul
300	**PG175FS**	149, 175, 190	Gasket Set, Full Set
300	**PG175HS**	149, 175, 190	Gasket Set, Head Gasket Set
300	**PG202S**	202	Gasket Set, In-frame Overhaul
300	**PG219S**	219, 239, 4039, 276, 4045	Gasket Set, In-frame Overhaul
300	**PG219CS**	135, 152, 164, 179, 180, 202, 219, 276	Gasket Set, Conversion Set
300	**PG303S**	303	Gasket Set, In-frame Overhaul
300	**PG308FS**	308, 321	Gasket Set, Full Set
300	**PG308XFS**	308, 321	Gasket Set, Full Set
300	**PG329S**	329	Gasket Set, In-frame Overhaul
300	**PG329HS**	329, 359	Gasket Set, Head Gasket Set
300	**PG359S**	359, 6059, 414, 6068	Gasket Set, In-frame Overhaul
300	**PG300PS**	152, 164, 179, 3029	Gasket Set, Oil Pan
300	**PG301PS**	202, 219, 239, 4039, 276,4045	Gasket Set, Oil Pan
300	**PG302PS**	303, 329	Gasket Set, Oil Pan
300	**PG303PS**	359, 6059, 414, 6068	Gasket Set, Oil Pan
400	**FP-AR100638-WS**	466D	Gasket Set, Complete Overhaul w/Front and Rear Seals
400	**FP-AR53033-WS**	270 Early	Gasket Set, Complete Overhaul w/Front and Rear Seals
400	**FP-AR53035-WS**	270 Late	Gasket Set, Complete Overhaul w/Front and Rear Seals
400	**FP-AR53094-WS**	404T, A Early	Gasket Set, Complete Overhaul w/Front and Rear Seals
400	**FP-AR53626-WS**	404D Early	Gasket Set, Complete Overhaul w/Front and Rear Seals

SERIES	PART NO.	ENGINE	DESCRIPTION
400	**FP-AR53631-WS**	404D Mid	Gasket Set, Complete Overhaul w/Front and Rear Seals
400	**FP-AR63269-WS**	404T, A Late	Gasket Set, Complete Overhaul w/Front and Rear Seals
400	**FP-AR63938-WS**	404D Late	Gasket Set, Complete Overhaul w/Front and Rear Seals
400	**FP-AR98845-WS**	466T, A	Gasket Set, Complete Overhaul w/Front and Rear Seals
400	**FP-RE35647-WS**	6076 Early	Gasket Set, Complete Overhaul w/Front and Rear Seals
400	**FP-RE64206-WS**	6076 Late	Gasket Set, Complete Overhaul w/Front and Rear Seals
400	**FP-404A**	404A Early	Gasket Kit, Aftercooler
400	**FP-466A**	466A, 404A Late	Gasket Kit, Aftercooler
400	**FP-6076A**	6076 Early (single pass)	Gasket Kit, Aftercooler
400	**FP-6076ADP**	6076 Late (dual pass)	Gasket Kit, Aftercooler
400	**FP-58952**	404T, A Late, 466D, 466T, A & 6076 Early	Gasket Kit, Oil Cooler Installation
400	**PG270ES**	270 Early	Gasket Set, In-frame Overhaul
400	**PG270LS**	270 Late	Gasket Set, In-frame Overhaul
400	**PG404DES**	404D Early	Gasket Set, In-frame Overhaul
400	**PG404DLS**	404D Late	Gasket Set, In-frame Overhaul
400	**PG404DMS**	404D Mid	Gasket Set, In-frame Overhaul
400	**PG404TAS**	404T, A	Gasket Set, In-frame Overhaul
400	**PG466DS**	466D	Gasket Set, In-frame Overhaul
400	**PG466TAS**	466T, A	Gasket Set, In-frame Overhaul
400	**PG6076ES**	6076 Early	Gasket Set, In-frame Overhaul
400	**PG6076LS**	6076 Late	Gasket Set, In-frame Overhaul
400	**PG400PS**	404D Late, 404T, A, 466D,466T,A	Gasket Set, Oil Pan
400	**PG401PS**	6076	Gasket Set, Oil Pan
400	**PG402PS**	270	Gasket Set, Oil Pan
400	**PG403PS**	404D Early	Gasket Set, Oil Pan
500	**FP-AR53614-WS**	531D	Gasket Set, Complete Overhaul w/Front and Rear Seals
500	**FP-RE17046-WS**	531A	Gasket Set, Complete Overhaul w/Front and Rear Seals
500	**FP-RE17050-WS**	531T	Gasket Set, Complete Overhaul w/Front and Rear Seals
500	**FP-RE37416-WS**	619	Gasket Set, Complete Overhaul w/Front and Rear Seals
500	**FP-500A**	531A, 619A	Gasket Kit, Aftercooler
500	**PG531AS**	531A	Gasket Set, In-frame Overhaul
500	**PG531DS**	531D	Gasket Set, In-frame Overhaul
500	**PG531TS**	531T	Gasket Set, In-frame Overhaul
500	**PG619S**	619	Gasket Set, In-frame Overhaul
500	**PG500PS**	531D, T, A	Gasket Set, Oil Pan
500	**PG501PS**	619	Gasket Set, Oil Pan
	FP-RE57187-WS	8.1L Powertech	Gasket Set, Complete Overhaul w/Front and Rear Seals
	PG6081S	8.1L Powertech	Gasket Set, In-frame Overhaul

Additional Specialty Gaskets & Antifriction Bearings Covertage

Global Technology Behind Every Part

The parts listed on this page represent additional coverage not found in the application section of this catalog. These parts are currently available and in stock. The FP Diesel part number utilizes the John Deere OEM number as the part suffix. The Part Type is also listed to help in the identification and part selection of the component.

PART NUMBER	PART TYPE
FP-R100336	Clutch Housing Gasket
FP-R33425	Clutch Housing Gasket
FP-R43260	Clutch Housing Gasket
FP-R43408	Clutch Housing Gasket
FP-R50335	Clutch Housing Gasket
FP-R55390	Clutch Housing Gasket
FP-R57430	Clutch Housing Gasket
FP-R63722	Clutch Housing Gasket
FP-R92411	Clutch Housing Gasket
FP-R98011	Clutch Housing Gasket
FP-R98915	Clutch Housing Gasket
FP-R99286	Clutch Housing Gasket
FP-R99288	Clutch Housing Gasket
FP-R99291	Clutch Housing Gasket
FP-R99292	Clutch Housing Gasket
FP-R97456	Water Pump Gasket
FP-T132943	Jake Brake Gasket Set
FP-T148483	Jake Brake Gasket Set
FP-T168463	Jake Brake Gasket Set
FP-JD8802	Needle Bearing
FP-JD8828	Needle Bearing
FP-JD8876	Needle Bearing
FP-DC20277	Ball Bearing
FP-JD10448	Ball Bearing
FP-JD7124	Ball Bearing
FP-JD7142	Ball Bearing
FP-JD7143	Ball Bearing
FP-JD7155	Ball Bearing
FP-JD7162	Ball Bearing
FP-JD7198	Ball Bearing
FP-JD7654	Ball Bearing
FP-JD7674	Ball Bearing
FP-JD7689	Ball Bearing
FP-JD8514	Ball Bearing
FP-JD8524	Ball Bearing
FP-JD8535	Ball Bearing
FP-JD8537	Ball Bearing
FP-JD8597	Ball Bearing
FP-JD9214	Ball Bearing
FP-JD9239	Ball Bearing
FP-JD9245	Ball Bearing
FP-JD9249	Ball Bearing
FP-JD9260	Ball Bearing
FP-JD9301	Ball Bearing
FP-JD9313	Ball Bearing
FP-JD9320	Ball Bearing
FP-JD9321	Ball Bearing
FP-JD9331	Ball Bearing
FP-JD9345	Ball Bearing
FP-JD9346	Ball Bearing

PART NUMBER	PART TYPE
FP-JD9350	Ball Bearing
FP-JD9390	Ball Bearing
FP-JD9439	Ball Bearing
FP-JD9440	Ball Bearing
FP-JD8720	Cylindrical Outer Race
FP-JD10190	Taper Bearing Cone
FP-JD7205	Taper Bearing Cone
FP-JD7209	Taper Bearing Cone
FP-JD7216	Taper Bearing Cone
FP-JD7222	Taper Bearing Cone
FP-JD7224	Taper Bearing Cone
FP-JD7372	Taper Bearing Cone
FP-JD7378	Taper Bearing Cone
FP-JD7386	Taper Bearing Cone
FP-JD7395	Taper Bearing Cone
FP-JD8100	Taper Bearing Cone
FP-JD8101	Taper Bearing Cone
FP-JD8112	Taper Bearing Cone
FP-JD8128	Taper Bearing Cone
FP-JD8130	Taper Bearing Cone
FP-JD8131	Taper Bearing Cone
FP-JD8134	Taper Bearing Cone
FP-JD8135	Taper Bearing Cone
FP-JD8158	Taper Bearing Cone
FP-JD8174	Taper Bearing Cone
FP-JD8177	Taper Bearing Cone
FP-JD8186	Taper Bearing Cone
FP-JD8187	Taper Bearing Cone
FP-JD8188	Taper Bearing Cone
FP-JD8190	Taper Bearing Cone
FP-JD8194	Taper Bearing Cone
FP-JD8902	Taper Bearing Cone
FP-JD8903	Taper Bearing Cone
FP-JD8905	Taper Bearing Cone
FP-JD8913	Taper Bearing Cone
FP-JD8922	Taper Bearing Cone
FP-JD8929	Taper Bearing Cone
FP-JD8941	Taper Bearing Cone
FP-JD8954	Taper Bearing Cone
FP-JD8955	Taper Bearing Cone
FP-JD8956	Taper Bearing Cone
FP-JD8961	Taper Bearing Cone
FP-JD8962	Taper Bearing Cone
FP-JD8969	Taper Bearing Cone
FP-JD8988	Taper Bearing Cone
FP-JD9018	Taper Bearing Cone
FP-JD9041	Taper Bearing Cone
FP-JD9049	Taper Bearing Cone
FP-JD9050	Taper Bearing Cone
FP-JD9055	Taper Bearing Cone
FP-JD9058	Taper Bearing Cone
FP-JD9069	Taper Bearing Cone

PART NUMBER	PART TYPE
FP-JD7259	Taper Bearing Cup
FP-JD7266	Taper Bearing Cup
FP-JD7270	Taper Bearing Cup
FP-JD7292	Taper Bearing Cup
FP-JD7297	Taper Bearing Cup
FP-JD7409	Taper Bearing Cup
FP-JD7418	Taper Bearing Cup
FP-JD7424	Taper Bearing Cup
FP-JD7425	Taper Bearing Cup
FP-JD7438	Taper Bearing Cup
FP-JD7439	Taper Bearing Cup
FP-JD7441	Taper Bearing Cup
FP-JD7445	Taper Bearing Cup
FP-JD7448	Taper Bearing Cup
FP-JD7449	Taper Bearing Cup
FP-JD7466	Taper Bearing Cup
FP-JD8206	Taper Bearing Cup
FP-JD8207	Taper Bearing Cup
FP-JD8213	Taper Bearing Cup
FP-JD8214	Taper Bearing Cup
FP-JD8219	Taper Bearing Cup
FP-JD8223	Taper Bearing Cup
FP-JD8225	Taper Bearing Cup
FP-JD8226	Taper Bearing Cup
FP-JD8230	Taper Bearing Cup
FP-JD8237	Taper Bearing Cup
FP-JD8239	Taper Bearing Cup
FP-JD8247	Taper Bearing Cup
FP-JD8248	Taper Bearing Cup
FP-JD8251	Taper Bearing Cup
FP-JD8258	Taper Bearing Cup
FP-JD8259	Taper Bearing Cup
FP-JD8271	Taper Bearing Cup
FP-JD8280	Taper Bearing Cup
FP-JD8282	Taper Bearing Cup
FP-JD8288	Taper Bearing Cup
FP-JD8290	Taper Bearing Cup
FP-JD8297	Taper Bearing Cup
FP-JD9109	Taper Bearing Cup
FP-JD9114	Taper Bearing Cup
FP-JD9115	Taper Bearing Cup
FP-JD9118	Taper Bearing Cup
FP-JD9127	Taper Bearing Cup
FP-JD9170	Taper Bearing Cup
FP-JD8286	Taper Bearing Set
FP-60004	Valve Guide
FP-R56462	O-Ring
FP-A4730R	O-Ring
FP-R120972	O-Ring
FP-AR55950	Cylinder Liner Sealing Ring Kit

Global Technology Behind Every Part

The products listed in this catalog are warranted to be free from defects in material and workmanship, under normal use and service, for two years from date of installation in an engine, without mileage or hour qualification in accordance with the following limited warranty. This warranty is the sole and exclusive warranty for failure of the above parts. This exclusive remedy shall not be deemed to have failed of its essential purpose so long as Federal-Mogul is willing and able to provide the remedy provided below.

WARRANTY LIMITATIONS

Federal-Mogul agrees to only pay for parts and labor needed to repair engine damages that result from the defined warranty failure. The costs are limited to parts and labor necessary for restoring the engine to its condition immediately prior to the failure. Labor costs are determined by current published rates and standards in the geographic area in which repairs are performed. Overtime or holiday rate charges are not allowed. We will also pay for maintenance products such as oil, antifreeze, belts, hoses and filter elements that are damaged because of a defined warranty failure.

Federal-Mogul is not responsible for engine failure resulting from owner, operator or third party neglect or abuse, improper installation or repair procedures, alteration or misapplication of parts, failure to properly service or maintain the engine and vehicle in accordance with applicable OEM operation and maintenance manuals or use in engine modified for competition purposes or used in competition.

OTHER THAN AS EXPRESSLY PROVIDED HEREBY, FEDERAL-MOGUL SHALL NOT, UNDER ANY CIRCUMSTANCES, BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, DAMAGE OR LOSS OF OTHER PROPERTY OR EQUIPMENT, LOSS OF PROFITS OR REVENUE, TRANSPORTATION AND TOWING COSTS, COST OF PURCHASED OR REPLACED GOOD, OR CLAIMS OF CUSTOMERS OF THE PURCHASER, WHICH MAY ARISE OR RESULT FROM THE SALE, INSTALLATION, OR USE OF THESE PARTS. Some jurisdictions do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages, so the limitations or exclusions contained herein may or may not apply to you. This warranty gives you specific legal rights. You may also have other rights depending on the state or province in which you reside.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS AND/OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE AND THEY ARE EXCLUDED TO THE EXTENT THEY EXCEED THE WARRANTY COVERAGE DESCRIBED BY THIS WARRANTY.

This warranty and remedy apply to new FP Diesel engine parts from Federal-Mogul sold directly to our authorized aftermarket customers as evidenced by completed claim documentation.

No agent or sales representative of Federal-Mogul Corporation has the authority to modify this warranty.

Other Federal-Mogul parts may carry different warranties.

Federal-Mogul must be notified by the customer: (i) before filing a warranty claim, (ii) within one year of the date that the claim accrues, and (iii) before any work has been performed. All claims must be submitted in writing and Federal-Mogul reserves the right to examine all parts, systems and related information associated with the claim. (Note all shipping charges are the responsibility of the end-user or distributor, Federal-Mogul will not accept collect shipments). See your sales representative for detailed claim submission procedures and forms.

Use parts only for applications and interchanges in this catalog.

Failure to heed this warning could result in reduced life or failure of the part. All parts listed in this catalog are not for use in space program, atomic energy/nuclear reactor equipment, medical or aircraft applications. Federal-Mogul reserves the right to make product improvements/changes, with respect to similar products previously manufactured, without notice and without incurring liability.

Les produits indiqués dans ce catalogue sont garantis contre toute défectuosité de matériel et de fabrication, dans des conditions d'utilisation et d'entretien normales, sur une période de deux ans à partir de la date d'installation dans un moteur, sans qualification de kilométrage ou horaire, conformément à la garantie limitée suivante. Cette garantie est la garantie unique et exclusive pour la défaillance des pièces précitées. Ce recours exclusif ne doit pas être présumé comme ayant échoué à son objectif essentiel, tant que Federal-Mogul approuve et est capable de fournir le recours fourni ci-dessous.

LIMITATIONS DE GARANTIE

Federal-Mogul accepte uniquement de payer les pièces et la main-d'œuvre nécessaires pour réparer les dommages de moteur qui résultent de la défaillance de la garantie définie. Les coûts sont limités aux pièces et à la main-d'œuvre nécessaires pour la restauration du moteur à l'état auquel il se trouvait juste avant la défaillance. Les frais de main-d'œuvre sont déterminés par les prix et normes publiés à l'heure actuelle dans la zone géographique dans laquelle les réparations sont effectuées. Les heures supplémentaires ou les frais de jours fériés ne sont pas permis. Nous payons également les produits d'entretien, tels que l'huile, l'antigel, les courroies, les tuyaux et les éléments de filtre qui sont endommagés en raison d'une défaillance de garantie définie.

Federal-Mogul décline toute responsabilité pour une défaillance de moteur découlant d'une négligence ou d'un abus infligés par le propriétaire, l'opérateur ou une tierce partie, de procédures d'installation ou de réparations incorrectes, de l'altération ou d'une application incorrecte de pièces, d'un manque de réparation ou d'entretien adéquat du moteur et du véhicule conformément aux manuels d'utilisation et d'entretien OEM applicables, ou de l'utilisation dans un moteur modifié à des fins de compétition ou utilisé en compétition.
SAUF SUR SPÉCIFICATION EXPRESSE DANS LA PRÉSENTE, FEDERAL-MOGUL NE SERA RESPONSABLE, EN AUCUNE CIRCONSTANCE, POUR DES DOMMAGES SPÉCIAUX, INDIRECTS, ACCESSOIRES OU CONSÉCUTIFS, Y COMPRIS, SANS S'Y LIMITER, DES DOMMAGES OU LA PERTE D'UNE AUTRE PROPRIÉTÉ OU D'UN AUTRE ÉQUIPEMENT, LA PERTE DE PROFITS OU DE REVENUS, LES FRAIS DE TRANSPORT ET DE REMORQUAGE, LES FRAIS DE BIENS ACHETÉS OU REMPLACÉS, OU LES DEMANDES DE CLIENTS DE L'ACHETEUR, QUI PEUVENT SE PRÉSENTER OU RÉSULTER DE LA VENTE, DE L'INSTALLATION OU DE L'UTILISATION DE CES PIÈCES.
Certaines juridictions ne permettent pas les limites sur la durée d'une garantie implicite, ni l'exclusion ou la limitation de dommages accessoires ou consécutifs, et, par conséquent, les limitations ou exclusions ci-incluses peuvent s'appliquer ou non pour votre cas. Cette garantie vous octroie des droits légaux spécifiques. Vous disposez également d'autres droits en fonction de l'état ou de la province de votre résidence.
LA PRÉSENTE GARANTIE REMPLACE TOUTES AUTRES GARANTIES, EXPRESSES ET/OU IMPLICITES, Y COMPRIS, SANS S'Y LIMITER, LES GARANTIES DE QUALITÉ MARCHANDE OU D'ADAPTATION À UN USAGE PARTICULIER, ET ELLES SONT EXCLUES SI ELLES DEVAIENT DÉPASSER LA COUVERTURE DE GARANTIE DÉCRITE PAR LA PRÉSENTE GARANTIE.
Cette garantie et le recours s'appliquent aux nouvelles pièces du moteur diesel FP de Federal-Mogul vendu directement à nos clients de pièces de rechange autorisés, tel qu'attesté par les documents de demande dûment remplis. Aucun agent ou représentant de ventes de Federal-Mogul Corporation ne dispose du droit de modifier la présente garantie. D'autres pièces de Federal-Mogul peuvent être couvertes par des garanties différentes.

PROCÉDURES DE DEMANDE

Le client doit notifier Federal-Mogul : (i) avant de remplir une demande au titre de la garantie, (ii) en l'espace d'un an à partir de la date à laquelle la demande est exercée, et (iii) avant l'exécution d'un travail quelconque. Toutes les demandes doivent être soumises par écrit et Federal-Mogul se réserve le droit d'examiner toutes les pièces, tous les systèmes et toutes les informations associées à la demande.
(Veuillez noter que l'utilisateur final ou le distributeur est responsable pour tous les frais d'expédition; Federal-Mogul n'accepte aucun envoi en port-dû). Veuillez consulter votre représentant des ventes pour les formulaires et les procédures de soumission de demande détaillés.

AVERTISSEMENT

Utilisez uniquement les pièces pour les applications et les échanges de ce catalogue.
Un manque de respect de cet avertissement pourrait résulter en une durée de vie réduite ou une défaillance de la pièce. Aucune des pièces indiquées dans ce catalogue n'est destinée à être utilisée dans un programme d'espace, pour du matériel de réacteur nucléaire/d'énergie atomique, ou des applications médicales ou d'aéronefs.
Federal-Mogul se réserve le droit d'effectuer des améliorations/changements de produits, en ce qui concerne des produits similaires fabriqués auparavant, sans avis et sans assumer de responsabilité.



Warranty

Global Technology Behind Every Part

Se garantiza que todos los productos presentados en este catálogo no presentaran defecto alguno, ya sea en su material ni en su fabricación, bajo condiciones de uso y servicio normales. La garantía es de dos años de la fecha de la instalación en el motor, sin límites en el kilometraje o en las horas de funcionamiento. Esta es la única y exclusiva garantía si alguna de las partes listadas fuese a fallar. Este recurso exclusivo no se tomará como una falta, siempre y cuando Federal Mogul pueda remediarlo con las provisiones enumeradas mas abajo.

LIMITACIONES DE LA GARANTIA

Federal-Mogul pagará solo por las partes y la mano de obra necesarias para reparar daños al motor que resulten de una falla definida sobre la parte vendida. Los costos quedarán limitados a las partes y la mano de obra necesarias para restaurar el motor a la condición en la cual se encontraba inmediatamente antes de la falla.
Los costos de la mano de obra se determinarán por medio de precios publicados y estándares del área geográfica en la cual las reparaciones se lleven a cabo. No se permitirá agregar costos de tiempo extra ni por trabajo durante días festivos. Pagaremos por productos de mantenimiento tales como aceite, anti-congelantes, correas, mangueras y filtros dañados debido a alguna falla definida del producto vendido.

Federal-Mogul no se hará responsable por una falla de motor causada por el dueño, operador o un tercero, ya sea por su propia negligencia, abuso o instalación inadecuada o procedimientos de reparación inadecuados, por alteración o aplicación incorrecta de las partes, falta de servicio necesario o mantenimiento del motor o de el vehículo de acuerdo a los manuales de operación y mantenimiento de acuerdo fabricante original, o por la modificación de un motor para su uso en competencias o por haber sido usado en competencias.

FEDERAL-MOGUL NO SERÁ RESPONSABLE, BAJO NINGUNA CIRCUNSTANCIA, OTRO QUE NO SEA LO QUE SE HA MENCIONADO EXPLÍCITAMENTE EN ÉSTA GARANTÍA, POR CUALQUIER DAÑO INDIRECTO, ESPECIAL, ACCIDENTAL O CÓMO CONSECUENCIA DE OTROS DAÑOS, INCLUYENDO, PERO SIN QUE QUÉDE LIMITADO A DAÑOS O PÉRDIDAS DE BIENES O DE EQUIPO, PÉRDIDA DE GANANCIAS O INGRESOS, COSTOS DE GRÚA O TRANSPORTACIÓN, DE PARTES REEMPLAZADAS , O RECLAMOS DE CLIENTES DEL COMPRADOR, QUE PUEDAN RESULTAR DE LA VENTA, INSTALACIÓN, O USO DE ÉSTAS PARTES.
Algunas jurisdicciones no permiten limitaciones con respecto a la duración de garantías implícitas, o a la exclusión o limitación de daños accidentales, por lo tanto puede que las limitaciones o exclusiones contenidas en el presente no le apliquen a Ud. Esta garantía le ofrece derechos específicos. Ud. puede gozar de derechos adicionales dependiendo del estado o provincia en la cual viva.

ÉSTA GARANTIA REEMPLAZARA CUALQUIER Y TODA OTRA GARANTÍA, YA SEA EXPLÍCITA U IMPLÍCITA, INCLUYENDO, PERO NO LIMITANDOSE A GARANTÍAS PARA LA MERCANCÍA Y USO DE LA MISMA CON UN PROPÓSITO EN PARTICULAR, Y ESAS MISMAS QUEDARAN EXCLUIDAS SI EXCEDEN LA COBERTURA DESCRITA EN ÉSTA GARANTÍA.
Ésta garantía y recurso aplican a partes nuevas de motores de FP Diésel, vendidas directamente a nuestros clientes autorizados del mercado de reposición, lo cual será corroborado por medio de documentación usada en el reclamo.
Ningún agente o representante de la empresa Federal-Mogul tiene autoridad para modificar ésta garantía.
Otras partes de Federal-Mogul pueden tener garantías diferentes.

PROCEDIMIENTO PARA PRESENTAR UN RECLAMO

Federal-Mogul debe ser notificado por el cliente: (i) antes de presentar un reclamo cubierto en la garantía, (ii) dentro del plazo de un año de ocurrida la falla, y (iii) antes de que se haya hecho algún trabajo.
Todo reclamo debe ser entregado por escrito y Federal-Mogul reserva el derecho a examinar todas las partes, sistemas e información relacionados y asociados al reclamo. (Todo cargo de envío será responsabilidad del usuario final o distribuidor, Federal-Mogul no aceptará envíos a cobrar). Contacte a su representante de ventas para conseguir el formulario de reclamos con el procedimiento detallado.

ADVERTENCIA

Las partes deben ser usadas sólo para las aplicaciones mencionadas en éste catálogo. El no seguir ésta advertencia puede que resulte en que le falle la parte o a que su vida quede reducida. Todas las partes listadas en éste catálogo no están hechas para el uso en programas espaciales, para equipos de energía atómica, o reactores nucleares, o para aplicaciones médicas ni en naves aéreas. Federal-Mogul se reserva el derecho de hacerle mejoras y cambios a los productos, con respecto a productos similares que se hayan fabricado previamente, sin notificación o responsabilidad legal alguna.

Engine Finding Index

Engine	Line No.
.9L 57 L-HEAD L2 3" Bore (Hercules Eng.)	1
1.1L 66 L-HEAD L2 3.25" Bore (Hercules Eng.)	2
1.6L 100 OHV L2 4" Bore	3
1.7L 106 OHV Diesel L2 3.875" Bore (Detroit Diesel Eng.)	4
1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
1.9L 113 L-HEAD L4 3" Bore (Hercules Eng.)	6
1.9L 113 OHV L2 4.25" Bore	7
1.9L 115 OHV L4 3.5" Bore	8
2.2L 133 L-HEAD L4 3.25" Bore (Hercules Eng.)	9
2.2L 135 OHV L3 3.8594" Bore	10
2.2L 135 OHV Diesel L3 3.8594" Bore	11
2.2L 135 OHV NG L3 3.8594" Bore	12
2.4L 145 OHV L4 3.625" Bore	13
2.4L 145 OHV L4 3.625" Bore (Late)	14
2.4L 145 OHV Diesel L4 3.625" Bore	15
2.4L 149 OHV L2 4.25" Bore	16
2.5L 152 OHV L3 3.8594" Bore	17
2.5L 152 OHV Diesel L3 3.8594" Bore	18
2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	19
2.5L 155 OHV Diesel L4 3.75" Bore	20
2.7L 162 L-HEAD L4 3.4375" Bore (Continental Eng.)	21
2.7L 164 OHV L3 4.0156" Bore	22
2.7L 164 OHV Diesel L3 4.0156" Bore	23
2.7L 165 OHV L4 3.875" Bore	24
2.7L 165 OHV Diesel L4 3.875" Bore	25
2.9L 175 OHV L2 4.5" Bore	26
2.9L 179 OHV Diesel L3 4.1875" Bore (Standard)	27
2.9L 179 OHV Turbo-Diesel L3 4.1875" Bore (Standard)	28
2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
2.9L 180 OHV L4 3.8594" Bore	31
2.9L 180 OHV Diesel L4 3.8594" Bore	32
3.1L 188 L-HEAD L4 3.75" Bore (Hercules Eng.)	33
3.1L 190 OHV L2 4.6875" Bore	34
3.1L 190 OHV Distillate L2 4.6875" Bore	35
3.3L 201 OHV L4 4" Bore	36
3.3L 202 OHV L4 3.8594" Bore	37
3.3L 202 OHV Diesel L4 3.8594" Bore	38
3.6L 217 OHV L6 3.625" Bore	39
3.6L 219 OHV L4 4.0156" Bore	40
3.6L 219 OHV Diesel L4 4.0156" Bore	41
3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore	42
3.6L 222 L-HEAD L6 3.375" Bore (Hercules Eng.)	43
3.7L 225 OHV L6 3.4063" Bore (Chrysler Eng.)	44
3.7L 226 OHV L4 4" Bore (Hercules Eng.)	45
3.7L 227 OHV L4 4.25" Bore	46
3.7L 227 OHV LPG L4 4.25" Bore	47
3.8L 230 L-HEAD L6 3.4375" Bore (Hercules Eng.)	48
3.8L 232 OHV Diesel L6 3.875" Bore	49
3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
3.9L 239 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	51
3.9L 239 (3917cc) OHV Diesel L4 106mm Bore (Litre Engine)	52
3.9L 239 (3917cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	53
3.9L 241 OHV L4 4.25" Bore	54
3.9L 241 OHV LPG L4 4.25" Bore	55
3.9L 241 OHV NG L4 4.25" Bore	56
4.1L 248 OHV L6 3.875" Bore	57
4.1L 248 OHV Diesel L6 3.875" Bore	58
4.2L 254 OHV Diesel L4 4.125" Bore	59
4.4L 270 OHV Diesel L4 4.25" Bore	60
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 4V IC)	62
4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (Litre Engine)	63
4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
4.6L 282 L-HEAD L6 3.75" Bore (Hercules Eng.)	69
4.7L 284 OHV Diesel L4 4.25" Bore (4-71) (Detroit Diesel Eng.)	70
4.9L 302 OHV L6 4" Bore	71
5.0L 303 OHV L6 3.8594" Bore	72
5.0L 303 OHV Diesel L6 3.8594" Bore	73
5.0L 303 OHV LPG L6 3.8594" Bore	74
5.0L 308 OHV L2 5.5" Bore	75
5.3L 321 OHV L2 5.5" Bore	76
5.4L 329 OHV L6 4.0156" Bore	77
5.4L 329 OHV Diesel L6 4.0156" Bore	78
5.4L 329 OHV LPG L6 4.0156" Bore	79
5.4L 329 OHV Turbo-Diesel L6 4.0156" Bore	80
5.6L 340 OHV L6 4.25" Bore	81
5.6L 340 OHV LPG L6 4.25" Bore	82
5.9L 358.4 (5876cc) OHV Diesel L6 106mm Bore (Litre Engine)	83
5.9L 358.4 (5876cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	84
5.9L 359 OHV Diesel L6 4.1875" Bore	85
5.9L 359 OHV Turbo-Diesel L6 4.1875" Bore	86
5.9L 362 OHV L6 4.25" Bore	87
5.9L 362 OHV LPG L6 4.25" Bore	88
5.9L 362 OHV NG L6 4.25" Bore	89
5.9L 362 OHV L2 6" Bore	90
5.9L 362 OHV Diesel L2 6" Bore	91
6.2L 378 OHV L2 6.125" Bore	92
6.2L 380 OHV L2 5.875" Bore	93
6.2L 381 OHV Diesel L6 4.125" Bore	94
6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
6.6L 404 OHV Diesel L6 4.25" Bore (5 Main)	97
6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Early)	99
6.8L 413 OHV L2 6.125" Bore	100
6.8L 413.8 (6784cc) OHV Turbo-NG L6 106mm Bore (PowerTech 2V IC)	101
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
6.8L 413.8 (6784cc) OHV Diesel L6 106mm Bore (PowerTech 2V)	104
6.8L 413.8 (6784cc) OHV NG L6 106mm Bore (PowerTech 2V)	105
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
6.8L 413.8 (6784cc) OHV Turbo-NG L6 106mm Bore (PowerTech 2V)	107
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
6.8L 414 OHV L2 6.125" Bore	111
7.0L 426 OHV Diesel L6 4.25" Bore (6-71) (Detroit Diesel Eng.)	112
7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
7.6L 465.9 (7638cc) OHV Diesel L6 115mm Bore (Litre Engine)	115
7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
8.1L 495.9 (8129cc) OHV Turbo-NG L6 116mm Bore (PowerTech 2V IC)	117
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118

(continued on next page)

John Deere Off Highway

Engine Finding Index

Engine	Line No.
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8.1L 495.9 (8129cc) OHV Turbo-NG L6 116mm Bore (PowerTech 2V)	120
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
8.7L 531 OHV Diesel L6 4.75" Bore	122
8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V IC)	124
9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V AC)	125
9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V)	126
10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
10.5L 639.5 (10483cc) OHV Turbo-Diesel L6 127mm Bore (PowerTech)	128
12.5L 764.6 (12534cc) OHV Turbo-Diesel L6 127mm Bore (PowerTech)	129
14.0L 855 OHV Turbo-Diesel L6 5.5" Bore (Cummins Eng.)	130

Engine Code Index

Engine Code	Engine Description	Line No.
A ... Wheel Tractor	5.0L 308 OHV L2 5.5" Bore	75
A ... Wheel Tractor	5.3L 321 OHV L2 5.5" Bore	76
AP4 ... Hay Baler	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	19
AP4 ... Harvester	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	19
B ... Wheel Tractor	2.4L 149 OHV L2 4.25" Bore	16
B ... Wheel Tractor	2.9L 175 OHV L2 4.5" Bore	26
B ... Wheel Tractor	3.1L 190 OHV L2 4.6875" Bore	34
F162 ... Combine	2.7L 162 L-HEAD L4 3.4375" Bore (Continental Eng.)	21
F162 ... Harvester	2.7L 162 L-HEAD L4 3.4375" Bore (Continental Eng.)	21
H-225 ... Windrower	3.7L 225 OHV L6 3.4063" Bore (Chrysler Eng.)	44
IXA ... Combine	1.9L 113 L-HEAD L4 3" Bore (Hercules Eng.)	6
IXB ... Combine	2.2L 133 L-HEAD L4 3.25" Bore (Hercules Eng.)	9
JD135G ... Power Unit	2.2L 135 OHV L3 3.8594" Bore	10
JD152D ... Power Unit	2.5L 152 OHV Diesel L3 3.8594" Bore	18
JD164D ... Power Unit	2.7L 164 OHV Diesel L3 4.0156" Bore	23
JD180G ... Power Unit	2.9L 180 OHV L4 3.8594" Bore	31
JD202D ... Power Unit	3.3L 202 OHV Diesel L4 3.8594" Bore	38
JD202G ... Power Unit	3.3L 202 OHV L4 3.8594" Bore	37
JD303D ... Power Unit	5.0L 303 OHV Diesel L6 3.8594" Bore	73
JD303G ... Power Unit	5.0L 303 OHV L6 3.8594" Bore	72
JD329D ... Power Unit	5.4L 329 OHV Diesel L6 4.0156" Bore	78
JD329G ... Power Unit	5.4L 329 OHV L6 4.0156" Bore	77
JD404D ... Power Unit	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
JD404D ... Power Unit	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
JXC ... Combine	4.6L 282 L-HEAD L6 3.75" Bore (Hercules Eng.)	69
JX4-C3 ... Combine	3.1L 188 L-HEAD L4 3.75" Bore (Hercules Eng.)	33
M ... Wheel Tractor	1.6L 100 OHV L2 4" Bore	3
NXA ... Power Unit	.9L 57 L-HEAD L2 3" Bore (Hercules Eng.)	1
NXB ... Power Unit	1.1L 66 L-HEAD L2 3.25" Bore (Hercules Eng.)	2
N14CELECT ... Harvester	14.0L 855 OHV Turbo-Diesel L6 5.5" Bore (Cummins Eng.)	130
OOC ... Combine	3.7L 226 OHV L4 4" Bore (Hercules Eng.)	45
QXC ... Combine	3.6L 222 L-HEAD L6 3.375" Bore (Hercules Eng.)	43
QXD3 ... Combine	3.8L 230 L-HEAD L6 3.4375" Bore (Hercules Eng.)	48
VF4 ... Hay Baler	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
VF4 ... Power Unit	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
VF4 ... Windrower	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
VF4D ... Hay Baler	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
VF4D ... Power Unit	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
VF4D ... Windrower	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
VF41 ... Hay Baler	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
VF41 ... Power Unit	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
VF41 ... Windrower	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
VG4D ... Hay Baler	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	19
VG4D ... Harvester	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	19
VH4 ... Hay Baler	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
VH4 ... Power Unit	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
VH4 ... Windrower	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
VH4D ... Hay Baler	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
VH4D ... Power Unit	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
VH4D ... Windrower	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
VH4DM ... Hay Baler	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
VH4DM ... Power Unit	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
VH4DM ... Windrower	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
VP4 ... Hay Baler	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	19
VP4 ... Harvester	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	19
VP4D ... Hay Baler	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	19
VP4D ... Harvester	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	19
V460D ... Hay Baler	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	19
V460D ... Harvester	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	19
V461D ... Hay Baler	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	19
V461D ... Harvester	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	19
115G ... Combine	1.9L 115 OHV L4 3.5" Bore	8
115G ... Power Unit	1.9L 115 OHV L4 3.5" Bore	8
115G ... Wheel Tractor	1.9L 115 OHV L4 3.5" Bore	8

(continued on next page)

Engine Code Index

Engine Code	Engine Description	Line No.
115G ... Windrower	1.9L 115 OHV L4 3.5" Bore	8
115G ... Crawler Tractor	1.9L 115 OHV L4 3.5" Bore	8
145D ... Wheel Tractor	2.4L 145 OHV Diesel L4 3.625" Bore	15
145D ... Crawler Tractor	2.4L 145 OHV Diesel L4 3.625" Bore	15
145G ... Power Unit	2.4L 145 OHV L4 3.625" Bore	13
145G ... Wheel Tractor	2.4L 145 OHV L4 3.625" Bore	13
145G ... Power Unit	2.4L 145 OHV L4 3.625" Bore (Late)	14
145G ... Wheel Tractor	2.4L 145 OHV L4 3.625" Bore (Late)	14
155D ... Combine	2.5L 155 OHV Diesel L4 3.75" Bore	20
155D ... Power Unit	2.5L 155 OHV Diesel L4 3.75" Bore	20
155D ... Wheel Tractor	2.5L 155 OHV Diesel L4 3.75" Bore	20
165D ... Combine	2.7L 165 OHV Diesel L4 3.875" Bore	25
165D ... Power Unit	2.7L 165 OHV Diesel L4 3.875" Bore	25
165D ... Wheel Tractor	2.7L 165 OHV Diesel L4 3.875" Bore	25
165G ... Combine	2.7L 165 OHV L4 3.875" Bore	24
165G ... Power Unit	2.7L 165 OHV L4 3.875" Bore	24
2-53 ... Wheel Tractor	1.7L 106 OHV Diesel L2 3.875" Bore (Detroit Diesel Eng.)	4
2-53N ... Wheel Tractor	1.7L 106 OHV Diesel L2 3.875" Bore (Detroit Diesel Eng.)	4
201G ... Loader	3.3L 201 OHV L4 4" Bore	36
201G ... Wheel Tractor	3.3L 201 OHV L4 4" Bore	36
217G ... Combine	3.6L 217 OHV L6 3.625" Bore	39
217G ... Harvester	3.6L 217 OHV L6 3.625" Bore	39
217G ... Power Unit	3.6L 217 OHV L6 3.625" Bore	39
227G ... Wheel Tractor	3.7L 227 OHV L4 4.25" Bore	46
227G ... Loader Tractor	3.7L 227 OHV L4 4.25" Bore	46
227LP LPG ... Wheel Tractor	3.7L 227 OHV LPG L4 4.25" Bore	47
227LP LPG ... Loader Tractor	3.7L 227 OHV LPG L4 4.25" Bore	47
232D ... Power Unit	3.8L 232 OHV Diesel L6 3.875" Bore	49
248D ... Combine	4.1L 248 OHV Diesel L6 3.875" Bore	58
248D ... Power Unit	4.1L 248 OHV Diesel L6 3.875" Bore	58
248G ... Combine	4.1L 248 OHV L6 3.875" Bore	57
248G ... Power Unit	4.1L 248 OHV L6 3.875" Bore	57
254D ... Loader	4.2L 254 OHV Diesel L4 4.125" Bore	59
254D ... Power Unit	4.2L 254 OHV Diesel L4 4.125" Bore	59
254D ... Wheel Tractor	4.2L 254 OHV Diesel L4 4.125" Bore	59
301G ... Combine	4.9L 302 OHV L6 4" Bore	71
301G ... Wheel Tractor	4.9L 302 OHV L6 4" Bore	71
3029D ... Power Unit	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
3029D ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
3029D ... Track Loader	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
3029T ... Power Unit	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
3029T ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
3029T ... Track Loader	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
3135D ... Wheel Tractor	2.2L 135 OHV Diesel L3 3.8594" Bore	11
3135G ... Loader	2.2L 135 OHV L3 3.8594" Bore	10
3135G ... Power Unit	2.2L 135 OHV L3 3.8594" Bore	10
3135G ... Wheel Tractor	2.2L 135 OHV L3 3.8594" Bore	10
3135G ... Windrower	2.2L 135 OHV L3 3.8594" Bore	10
3135G ... Crawler Tractor	2.2L 135 OHV L3 3.8594" Bore	10
3135G ... Loader Tractor	2.2L 135 OHV L3 3.8594" Bore	10
3152D ... Forklift	2.5L 152 OHV Diesel L3 3.8594" Bore	18
3152D ... Loader	2.5L 152 OHV Diesel L3 3.8594" Bore	18
3152D ... Power Unit	2.5L 152 OHV Diesel L3 3.8594" Bore	18
3152D ... Wheel Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
3152D ... Crawler Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
3152D ... Loader Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
3152D ... Dozer	2.5L 152 OHV Diesel L3 3.8594" Bore	18
3152D ... Backhoe	2.5L 152 OHV Diesel L3 3.8594" Bore	18
3152G ... Loader	2.5L 152 OHV L3 3.8594" Bore	17
3152G ... Wheel Tractor	2.5L 152 OHV L3 3.8594" Bore	17
3164D ... Combine	2.7L 164 OHV Diesel L3 4.0156" Bore	23
3164D ... Loader	2.7L 164 OHV Diesel L3 4.0156" Bore	23
3164D ... Power Unit	2.7L 164 OHV Diesel L3 4.0156" Bore	23
3164D ... Wheel Tractor	2.7L 164 OHV Diesel L3 4.0156" Bore	23
3164D ... Crawler Tractor	2.7L 164 OHV Diesel L3 4.0156" Bore	23
3164D ... Loader Tractor	2.7L 164 OHV Diesel L3 4.0156" Bore	23
3164D ... Dozer	2.7L 164 OHV Diesel L3 4.0156" Bore	23
3164D ... Backhoe	2.7L 164 OHV Diesel L3 4.0156" Bore	23
3164G ... Loader	2.7L 164 OHV L3 4.0156" Bore	22
3164G ... Wheel Tractor	2.7L 164 OHV L3 4.0156" Bore	22
3179D ... Wheel Tractor	2.9L 179 OHV Diesel L3 4.1875" Bore (Standard)	27
3179D ... Crawler Tractor	2.9L 179 OHV Diesel L3 4.1875" Bore (Standard)	27
3179D ... Dozer	2.9L 179 OHV Diesel L3 4.1875" Bore (Standard)	27
3179T ... Wheel Tractor	2.9L 179 OHV Turbo-Diesel L3 4.1875" Bore (Standard)	28
4-71 ... Wheel Tractor	4.7L 284 OHV Diesel L4 4.25" Bore (4-71) (Detroit Diesel Eng.)	70
4-71N ... Wheel Tractor	4.7L 284 OHV Diesel L4 4.25" Bore (4-71) (Detroit Diesel Eng.)	70
4039D ... Forklift	3.9L 239 (3917cc) OHV Diesel L4 106mm Bore (Litre Engine)	52
4039D ... Crawler Tractor	3.9L 239 (3917cc) OHV Diesel L4 106mm Bore (Litre Engine)	52
4039D ... Excavator	3.9L 239 (3917cc) OHV Diesel L4 106mm Bore (Litre Engine)	52
4039D ... Backhoe	3.9L 239 (3917cc) OHV Diesel L4 106mm Bore (Litre Engine)	52
4039T ... Backhoe	3.9L 239 (3917cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	53
4039T ... Sprayer	3.9L 239 (3917cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	53

(continued on next page)

Engine Code Index

Engine Code	Engine Description	Line No.
4045D ... Loader	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (Litre Engine)	63
4045D ... Loader Tractor	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (Litre Engine)	63
4045D ... Backhoe	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (Litre Engine)	63
4045H ... Power Unit	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
4045H ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
4045H ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
4045H ... Loader Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
4045H ... Forestry Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
4045H ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
4045H ... Integrated Tool Carrier	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
4045H ... Telehandler	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
4045H ... Power Unit	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 4V IC)	62
4045H ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 4V IC)	62
4045T ... Loader	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
4045T ... Loader Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
4045T ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
4045T ... Skidder	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
4045T ... Backhoe	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
4180D ... Crawler Tractor	2.9L 180 OHV Diesel L4 3.8594" Bore	32
4180G ... Combine	2.9L 180 OHV L4 3.8594" Bore	31
4180G ... Forklift	2.9L 180 OHV L4 3.8594" Bore	31
4180G ... Power Unit	2.9L 180 OHV L4 3.8594" Bore	31
4180G ... Wheel Tractor	2.9L 180 OHV L4 3.8594" Bore	31
4180G ... Windrower	2.9L 180 OHV L4 3.8594" Bore	31
4180G ... Crawler Tractor	2.9L 180 OHV L4 3.8594" Bore	31
4180G ... Loader Tractor	2.9L 180 OHV L4 3.8594" Bore	31
4180G ... Skidder	2.9L 180 OHV L4 3.8594" Bore	31
420 ... Wheel Tractor	1.9L 113 OHV L2 4.25" Bore	7
4202D ... Forklift	3.3L 202 OHV Diesel L4 3.8594" Bore	38
4202D ... Loader	3.3L 202 OHV Diesel L4 3.8594" Bore	38
4202D ... Power Unit	3.3L 202 OHV Diesel L4 3.8594" Bore	38
4202D ... Wheel Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38
4202D ... Windrower	3.3L 202 OHV Diesel L4 3.8594" Bore	38
4202D ... Crawler Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38
4202D ... Loader Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38
4202D ... Skidder	3.3L 202 OHV Diesel L4 3.8594" Bore	38
4202D ... Dozer	3.3L 202 OHV Diesel L4 3.8594" Bore	38
4202D ... Backhoe	3.3L 202 OHV Diesel L4 3.8594" Bore	38
4202G ... Combine	3.3L 202 OHV L4 3.8594" Bore	37
4202G ... Power Unit	3.3L 202 OHV L4 3.8594" Bore	37
4202G ... Wheel Tractor	3.3L 202 OHV L4 3.8594" Bore	37
4202G ... Crawler Tractor	3.3L 202 OHV L4 3.8594" Bore	37
4202G ... Loader Tractor	3.3L 202 OHV L4 3.8594" Bore	37
4219D ... Combine	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4219D ... Cotton Picker	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4219D ... Forklift	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4219D ... Loader	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4219D ... Power Unit	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4219D ... Wheel Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4219D ... Windrower	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4219D ... Crawler Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4219D ... Loader Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4219D ... Forestry Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4219D ... Skidder	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4219D ... Dozer	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4219D ... Backhoe	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4219D ... Sprayer	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4219G ... Combine	3.6L 219 OHV L4 4.0156" Bore	40
4219G ... Cotton Picker	3.6L 219 OHV L4 4.0156" Bore	40
4219G ... Power Unit	3.6L 219 OHV L4 4.0156" Bore	40
4219G ... Wheel Tractor	3.6L 219 OHV L4 4.0156" Bore	40
4219G ... Crawler Tractor	3.6L 219 OHV L4 4.0156" Bore	40
4219T ... Wheel Tractor	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore	42
4219T ... Crawler Tractor	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore	42
4219T ... Loader Tractor	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore	42
4219T ... Skidder	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore	42
4219T ... Dozer	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore	42
4219T ... Backhoe	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore	42
4239D ... Forklift	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
4239D ... Wheel Tractor	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
4239D ... Windrower	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
4239D ... Crawler Tractor	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
4239D ... Loader Tractor	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
4239D ... Excavator	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50

(continued on next page)

Engine Code Index

Engine Code	Engine Description	Line No.
4239D ... Backhoe	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
4239D ... Sprayer	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
4239T ... Wheel Tractor	3.9L 239 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	51
4239T ... Windrower	3.9L 239 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	51
4239T ... Loader Tractor	3.9L 239 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	51
4239T ... Excavator	3.9L 239 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	51
4239T ... Backhoe	3.9L 239 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	51
4241G ... Forklift	3.9L 241 OHV L4 4.25" Bore	54
4241G ... Loader	3.9L 241 OHV L4 4.25" Bore	54
4241G ... Wheel Tractor	3.9L 241 OHV L4 4.25" Bore	54
4241G ... Loader Tractor	3.9L 241 OHV L4 4.25" Bore	54
4241G ... Dozer	3.9L 241 OHV L4 4.25" Bore	54
4241G ... Backhoe	3.9L 241 OHV L4 4.25" Bore	54
4241LP LPG ... Wheel Tractor	3.9L 241 OHV LPG L4 4.25" Bore	55
4241LP LPG ... Loader Tractor	3.9L 241 OHV LPG L4 4.25" Bore	55
4241NG Natural Gas ... Wheel Tractor	3.9L 241 OHV NG L4 4.25" Bore	56
4241NG Natural Gas ... Loader Tractor	3.9L 241 OHV NG L4 4.25" Bore	56
4270D ... Loader	4.4L 270 OHV Diesel L4 4.25" Bore	60
4270D ... Wheel Tractor	4.4L 270 OHV Diesel L4 4.25" Bore	60
4270D ... Loader Tractor	4.4L 270 OHV Diesel L4 4.25" Bore	60
4270D ... Backhoe	4.4L 270 OHV Diesel L4 4.25" Bore	60
4276D ... Loader	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
4276D ... Wheel Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
4276D ... Crawler Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
4276D ... Loader Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
4276D ... Excavator	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
4276D ... Skidder	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
4276D ... Dozer	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
4276D ... Backhoe	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
4276D ... Feller Buncher	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
4276T ... Loader	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
4276T ... Wheel Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
4276T ... Crawler Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
4276T ... Loader Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
4276T ... Excavator	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
4276T ... Skidder	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
4276T ... Dozer	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
4276T ... Backhoe	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
430 ... Wheel Tractor	1.9L 113 OHV L2 4.25" Bore	7
440 ... Wheel Tractor	1.9L 113 OHV L2 4.25" Bore	7
50 ... Wheel Tractor	3.1L 190 OHV L2 4.6875" Bore	34
50 Distillate ... Wheel Tractor	3.1L 190 OHV Distillate L2 4.6875" Bore	35
520 ... Wheel Tractor	3.1L 190 OHV L2 4.6875" Bore	34
520 Distillate ... Wheel Tractor	3.1L 190 OHV Distillate L2 4.6875" Bore	35
530 ... Wheel Tractor	3.1L 190 OHV L2 4.6875" Bore	34
540A ... Skidder	5.4L 329 OHV Turbo-Diesel L6 4.0156" Bore	80
6-71 ... Wheel Tractor	7.0L 426 OHV Diesel L6 4.25" Bore (6-71) (Detroit Diesel Eng.)	112
6-71N ... Wheel Tractor	7.0L 426 OHV Diesel L6 4.25" Bore (6-71) (Detroit Diesel Eng.)	112
60 ... Wheel Tractor	5.3L 321 OHV L2 5.5" Bore	76
6059D ... Grader	5.9L 358.4 (5876cc) OHV Diesel L6 106mm Bore (Litre Engine)	83
6059D ... Loader	5.9L 358.4 (5876cc) OHV Diesel L6 106mm Bore (Litre Engine)	83
6059T ... Grader	5.9L 358.4 (5876cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	84
6059T ... Loader	5.9L 358.4 (5876cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	84
6059T ... Skidder	5.9L 358.4 (5876cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	84
6068T ... Cotton Picker	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
6068T ... Loader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
6068T ... Crawler Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
6068T ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
6068T ... Skidder	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
6068T ... Feller Buncher	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
6076A ... Grader	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
6076A ... Loader	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
6076A ... Wheel Tractor	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
6076A ... Excavator	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
6076A ... Skidder	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
6076D ... Loader	7.6L 465.9 (7638cc) OHV Diesel L6 115mm Bore (Litre Engine)	115
6076H ... Grader	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
6076H ... Loader	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116

(continued on next page)

Engine Code Index

Engine Code	Engine Description	Line No.
6076H ... Wheel Tractor	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
6076H ... Excavator	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
6076H ... Skidder	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
6076T ... Grader	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
6076T ... Loader	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
6076T ... Wheel Tractor	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
6076T ... Excavator	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
6076T ... Skidder	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
6081A ... Off-Highway Truck	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
6081A ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
6081A ... Cotton Picker	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
6081A ... Harvester	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
6081A ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
6081A ... Power Unit	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
6081A ... Scraper	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
6081A ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
6081A ... Crawler Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
6081A ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
6081A ... Forestry Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
6081A ... Excavator	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
6081A ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
6081A ... Logger	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
6081A ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
6081A ... Forage Harvester	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
6081H ... Off-Highway Truck	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6081H ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6081H ... Cotton Picker	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6081H ... Harvester	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6081H ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6081H ... Power Unit	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6081H ... Scraper	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6081H ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6081H ... Crawler Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6081H ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6081H ... Forestry Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6081H ... Excavator	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6081H ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6081H ... Logger	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6081H ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6081H ... Forage Harvester	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6081HN ... Power Unit	8.1L 495.9 (8129cc) OHV Turbo-NG L6 116mm Bore (PowerTech 2V IC)	117
6081HN ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-NG L6 116mm Bore (PowerTech 2V IC)	117
6081T ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
6081T ... Cotton Picker	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
6081T ... Harvester	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
6081T ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
6081T ... Power Unit	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
6081T ... Scraper	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121

(continued on next page)

Engine Code Index

Engine Code	Engine Description	Line No.
6081T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
6081T ... Crawler Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
6081T ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
6081T ... Forestry Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
6081T ... Excavator	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
6081T ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
6081T ... Sprayer	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
6081T ... Logger	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
6081T ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
6081TN ... Power Unit	8.1L 495.9 (8129cc) OHV Turbo-NG L6 116mm Bore (PowerTech 2V)	120
6081TN ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-NG L6 116mm Bore (PowerTech 2V)	120
6090A ... Harvester	9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V AC)	125
6090A ... Power Unit	9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V AC)	125
6090A ... Wheel Tractor	9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V AC)	125
6090H ... Harvester	9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V IC)	124
6090H ... Power Unit	9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V IC)	124
6090H ... Wheel Tractor	9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V IC)	124
6090T ... Harvester	9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V)	126
6090T ... Power Unit	9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V)	126
6090T ... Wheel Tractor	9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V)	126
6303D ... Combine	5.0L 303 OHV Diesel L6 3.8594" Bore	73
6303D ... Cotton Picker	5.0L 303 OHV Diesel L6 3.8594" Bore	73
6303D ... Grader	5.0L 303 OHV Diesel L6 3.8594" Bore	73
6303D ... Loader	5.0L 303 OHV Diesel L6 3.8594" Bore	73
6303D ... Power Unit	5.0L 303 OHV Diesel L6 3.8594" Bore	73
6303D ... Loader Tractor	5.0L 303 OHV Diesel L6 3.8594" Bore	73
6303D ... Skidder	5.0L 303 OHV Diesel L6 3.8594" Bore	73
6303G ... Combine	5.0L 303 OHV L6 3.8594" Bore	72
6303G ... Cotton Picker	5.0L 303 OHV L6 3.8594" Bore	72
6303G ... Power Unit	5.0L 303 OHV L6 3.8594" Bore	72
6303G ... Wheel Tractor	5.0L 303 OHV L6 3.8594" Bore	72
6303G ... Loader Tractor	5.0L 303 OHV L6 3.8594" Bore	72
6303LP LPG ... Combine	5.0L 303 OHV LPG L6 3.8594" Bore	74
6303LP LPG ... Cotton Picker	5.0L 303 OHV LPG L6 3.8594" Bore	74
6303LP LPG ... Power Unit	5.0L 303 OHV LPG L6 3.8594" Bore	74
6303LP LPG ... Wheel Tractor	5.0L 303 OHV LPG L6 3.8594" Bore	74
6303LP LPG ... Loader Tractor	5.0L 303 OHV LPG L6 3.8594" Bore	74
6329D ... Combine	5.4L 329 OHV Diesel L6 4.0156" Bore	78
6329D ... Cotton Picker	5.4L 329 OHV Diesel L6 4.0156" Bore	78
6329D ... Grader	5.4L 329 OHV Diesel L6 4.0156" Bore	78
6329D ... Loader	5.4L 329 OHV Diesel L6 4.0156" Bore	78
6329D ... Power Unit	5.4L 329 OHV Diesel L6 4.0156" Bore	78
6329D ... Wheel Tractor	5.4L 329 OHV Diesel L6 4.0156" Bore	78
6329D ... Skidder	5.4L 329 OHV Diesel L6 4.0156" Bore	78
6329G ... Combine	5.4L 329 OHV L6 4.0156" Bore	77
6329G ... Cotton Picker	5.4L 329 OHV L6 4.0156" Bore	77
6329G ... Power Unit	5.4L 329 OHV L6 4.0156" Bore	77
6329LP LPG ... Combine	5.4L 329 OHV LPG L6 4.0156" Bore	79
6329LP LPG ... Cotton Picker	5.4L 329 OHV LPG L6 4.0156" Bore	79
6329LP LPG ... Power Unit	5.4L 329 OHV LPG L6 4.0156" Bore	79
6329T ... Grader	5.4L 329 OHV Turbo-Diesel L6 4.0156" Bore	80
6329T ... Loader	5.4L 329 OHV Turbo-Diesel L6 4.0156" Bore	80
6329T ... Wheel Tractor	5.4L 329 OHV Turbo-Diesel L6 4.0156" Bore	80
6329T ... Backhoe	5.4L 329 OHV Turbo-Diesel L6 4.0156" Bore	80
6341G ... Combine	5.6L 340 OHV L6 4.25" Bore	81
6341G ... Power Unit	5.6L 340 OHV L6 4.25" Bore	81
6341G ... Wheel Tractor	5.6L 340 OHV L6 4.25" Bore	81
6341G ... Loader Tractor	5.6L 340 OHV L6 4.25" Bore	81
6341LP LPG ... Wheel Tractor	5.6L 340 OHV LPG L6 4.25" Bore	82
6341LP LPG ... Loader Tractor	5.6L 340 OHV LPG L6 4.25" Bore	82
6359D ... Combine	5.9L 359 OHV Diesel L6 4.1875" Bore	85
6359D ... Cotton Picker	5.9L 359 OHV Diesel L6 4.1875" Bore	85
6359D ... Grader	5.9L 359 OHV Diesel L6 4.1875" Bore	85
6359D ... Wheel Tractor	5.9L 359 OHV Diesel L6 4.1875" Bore	85
6359T ... Combine	5.9L 359 OHV Turbo-Diesel L6 4.1875" Bore	86

(continued on next page)

Engine Code Index

Engine Code	Engine Description	Line No.
6359T ... Cotton Picker	5.9L 359 OHV Turbo-Diesel L6 4.1875" Bore	86
6359T ... Grader	5.9L 359 OHV Turbo-Diesel L6 4.1875" Bore	86
6359T ... Loader	5.9L 359 OHV Turbo-Diesel L6 4.1875" Bore	86
6359T ... Wheel Tractor	5.9L 359 OHV Turbo-Diesel L6 4.1875" Bore	86
6359T ... Loader Tractor	5.9L 359 OHV Turbo-Diesel L6 4.1875" Bore	86
6359T ... Skidder	5.9L 359 OHV Turbo-Diesel L6 4.1875" Bore	86
6359T ... Backhoe	5.9L 359 OHV Turbo-Diesel L6 4.1875" Bore	86
6362G ... Combine	5.9L 362 OHV L6 4.25" Bore	87
6362G ... Power Unit	5.9L 362 OHV L6 4.25" Bore	87
6362G ... Wheel Tractor	5.9L 362 OHV L6 4.25" Bore	87
6362G ... Loader Tractor	5.9L 362 OHV L6 4.25" Bore	87
6362LP LPG ... Wheel Tractor	5.9L 362 OHV LPG L6 4.25" Bore	88
6362NG Natural Gas ... Wheel Tractor	5.9L 362 OHV NG L6 4.25" Bore	89
6381D ... Power Unit	6.2L 381 OHV Diesel L6 4.125" Bore	94
6381D ... Wheel Tractor	6.2L 381 OHV Diesel L6 4.125" Bore	94
6404A ... Combine	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
6404A ... Harvester	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
6404A ... Loader	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
6404A ... Wheel Tractor	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
6404A ... Excavator	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
6404A ... Skidder	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
6404A ... Compactor	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
6404D ... Combine	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
6404D ... Power Unit	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
6404D ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
6404D ... Loader Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
6404D ... Backhoe	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
6404D ... Combine	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
6404D ... Harvester	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
6404D ... Power Unit	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
6404D ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
6404D ... Loader Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
6404D ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (5 Main)	97
6404T ... Combine	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
6404T ... Harvester	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
6404T ... Loader	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
6404T ... Wheel Tractor	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
6404T ... Excavator	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
6404T ... Skidder	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
6404T ... Compactor	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
6404T ... Feller Buncher	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
6404T ... Forage Harvester	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
6404T ... Wheel Tractor	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Early)	99
6414D ... Grader	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
6414D ... Loader	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
6414D ... Crawler Tractor	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
6414D ... Loader Tractor	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
6414D ... Skidder	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
6414T ... Grader	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
6414T ... Loader	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
6414T ... Crawler Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
6414T ... Loader Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
6414T ... Forestry Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
6414T ... Excavator	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
6414T ... Skidder	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
6414T ... Dozer	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
6414T ... Feller Buncher	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
6466A ... Combine	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466A ... Cotton Picker	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466A ... Corn Picker	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466A ... Harvester	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466A ... Grader	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466A ... Loader	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466A ... Scraper	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466A ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466A ... Crawler Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466A ... Forestry Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466A ... Excavator	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466A ... Skidder	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466A ... Compactor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466A ... Dozer	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466A ... Feller Buncher	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466A ... Forage Harvester	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466D ... Combine	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113

(continued on next page)

Engine Code Index

Engine Code	Engine Description	Line No.
6466D ... Wheel Tractor	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
6466T ... Combine	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466T ... Corn Picker	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466T ... Harvester	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466T ... Grader	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466T ... Loader	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466T ... Scraper	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466T ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466T ... Crawler Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466T ... Forestry Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466T ... Excavator	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466T ... Skidder	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466T ... Compactor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466T ... Dozer	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6466T ... Feller Buncher	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6531A ... Harvester	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
6531A ... Grader	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
6531A ... Loader	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
6531A ... Wheel Tractor	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
6531A ... Compactor	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
6531D ... Scraper	8.7L 531 OHV Diesel L6 4.75" Bore	122
6531D ... Wheel Tractor	8.7L 531 OHV Diesel L6 4.75" Bore	122
6531D ... Loader Tractor	8.7L 531 OHV Diesel L6 4.75" Bore	122
6531D ... Backhoe	8.7L 531 OHV Diesel L6 4.75" Bore	122
6531T ... Harvester	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
6531T ... Grader	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
6531T ... Loader	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
6531T ... Wheel Tractor	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
6531T ... Compactor	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
6619A ... Combine	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
6619A ... Harvester	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
6619A ... Scraper	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
6619A ... Wheel Tractor	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
6619A ... Windrower	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
6619A ... Crawler Tractor	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
6619A ... Excavator	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
6619A ... Dozer	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
6619A ... Forage Harvester	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
6619T ... Combine	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
6619T ... Harvester	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
6619T ... Scraper	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
6619T ... Wheel Tractor	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
6619T ... Windrower	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
6619T ... Crawler Tractor	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
6619T ... Excavator	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
6619T ... Dozer	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
70 ... Wheel Tractor	6.2L 380 OHV L2 5.875" Bore	93
70 ... Wheel Tractor	6.8L 413 OHV L2 6.125" Bore	100
720 ... Wheel Tractor	5.9L 362 OHV L2 6" Bore	90
720 ... Wheel Tractor	5.9L 362 OHV Diesel L2 6" Bore	91
720 ... Wheel Tractor	6.2L 378 OHV L2 6.125" Bore	92
730 ... Wheel Tractor	5.9L 362 OHV L2 6" Bore	90
730 ... Wheel Tractor	5.9L 362 OHV Diesel L2 6" Bore	91
730 ... Wheel Tractor	6.2L 378 OHV L2 6.125" Bore	92

Model Index

Model	Engine Description	Line No.
A ... Wheel Tractor	5.0L 308 OHV L2 5.5" Bore	75
A ... Wheel Tractor	5.3L 321 OHV L2 5.5" Bore	76
AH ... Wheel Tractor	5.0L 308 OHV L2 5.5" Bore	75
AH ... Wheel Tractor	5.3L 321 OHV L2 5.5" Bore	76
AI ... Wheel Tractor	5.0L 308 OHV L2 5.5" Bore	75
AI ... Wheel Tractor	5.3L 321 OHV L2 5.5" Bore	76
AN ... Wheel Tractor	5.0L 308 OHV L2 5.5" Bore	75
AN ... Wheel Tractor	5.3L 321 OHV L2 5.5" Bore	76
ANH ... Wheel Tractor	5.0L 308 OHV L2 5.5" Bore	75
ANH ... Wheel Tractor	5.3L 321 OHV L2 5.5" Bore	76
AO ... Wheel Tractor	5.0L 308 OHV L2 5.5" Bore	75
AO ... Wheel Tractor	5.3L 321 OHV L2 5.5" Bore	76
AR ... Wheel Tractor	5.0L 308 OHV L2 5.5" Bore	75
AR ... Wheel Tractor	5.3L 321 OHV L2 5.5" Bore	76
AW ... Wheel Tractor	5.0L 308 OHV L2 5.5" Bore	75
AW ... Wheel Tractor	5.3L 321 OHV L2 5.5" Bore	76
AWH ... Wheel Tractor	5.0L 308 OHV L2 5.5" Bore	75
AWH ... Wheel Tractor	5.3L 321 OHV L2 5.5" Bore	76
B ... Wheel Tractor	2.4L 149 OHV L2 4.25" Bore	16
B ... Wheel Tractor	2.9L 175 OHV L2 4.5" Bore	26
B ... Wheel Tractor	3.1L 190 OHV L2 4.6875" Bore	34
BI ... Wheel Tractor	2.4L 149 OHV L2 4.25" Bore	16
BI ... Wheel Tractor	2.9L 175 OHV L2 4.5" Bore	26
BI ... Wheel Tractor	3.1L 190 OHV L2 4.6875" Bore	34
BN ... Wheel Tractor	2.4L 149 OHV L2 4.25" Bore	16
BN ... Wheel Tractor	2.9L 175 OHV L2 4.5" Bore	26
BN ... Wheel Tractor	3.1L 190 OHV L2 4.6875" Bore	34
BO ... Wheel Tractor	2.4L 149 OHV L2 4.25" Bore	16
BO ... Wheel Tractor	2.9L 175 OHV L2 4.5" Bore	26
BO ... Wheel Tractor	3.1L 190 OHV L2 4.6875" Bore	34
BR ... Wheel Tractor	2.4L 149 OHV L2 4.25" Bore	16
BR ... Wheel Tractor	2.9L 175 OHV L2 4.5" Bore	26
BR ... Wheel Tractor	3.1L 190 OHV L2 4.6875" Bore	34
BW ... Wheel Tractor	2.4L 149 OHV L2 4.25" Bore	16

(continued on next page)

Model Index

Model	Engine Description	Line No.
BW ... Wheel Tractor	2.9L 175 OHV L2 4.5" Bore	26
BW ... Wheel Tractor	3.1L 190 OHV L2 4.6875" Bore	34
D152 ... Forklift	2.5L 152 OHV Diesel L3 3.8594" Bore	18
HA ... Combine	3.6L 217 OHV L6 3.625" Bore	39
HB ... Combine	3.6L 217 OHV L6 3.625" Bore	39
HD ... Combine	3.6L 217 OHV L6 3.625" Bore	39
JD135G ... Power Unit	2.2L 135 OHV L3 3.8594" Bore	10
JD152D ... Power Unit	2.5L 152 OHV Diesel L3 3.8594" Bore	18
JD164D ... Power Unit	2.7L 164 OHV Diesel L3 4.0156" Bore	23
JD180G ... Power Unit	2.9L 180 OHV L4 3.8594" Bore	31
JD202D ... Power Unit	3.3L 202 OHV Diesel L4 3.8594" Bore	38
JD202G ... Power Unit	3.3L 202 OHV L4 3.8594" Bore	37
JD300 ... Wheel Tractor	2.2L 135 OHV L3 3.8594" Bore	10
JD300 ... Crawler Tractor	2.2L 135 OHV L3 3.8594" Bore	10
JD300 ... Loader Tractor	2.2L 135 OHV L3 3.8594" Bore	10
JD300 ... Wheel Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
JD300 ... Crawler Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
JD300 ... Loader Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
JD302 ... Loader	2.7L 164 OHV L3 4.0156" Bore	22
JD302 ... Wheel Tractor	2.7L 164 OHV L3 4.0156" Bore	22
JD302 ... Loader	2.7L 164 OHV Diesel L3 4.0156" Bore	23
JD302 ... Wheel Tractor	2.7L 164 OHV Diesel L3 4.0156" Bore	23
JD303D ... Power Unit	5.0L 303 OHV Diesel L6 3.8594" Bore	73
JD303G ... Power Unit	5.0L 303 OHV L6 3.8594" Bore	72
JD303G ... Power Unit	5.0L 303 OHV LPG L6 3.8594" Bore	74
JD329D ... Power Unit	5.4L 329 OHV Diesel L6 4.0156" Bore	78
JD329G ... Power Unit	5.4L 329 OHV L6 4.0156" Bore	77
JD329G ... Power Unit	5.4L 329 OHV LPG L6 4.0156" Bore	79
JD350 ... Wheel Tractor	2.2L 135 OHV L3 3.8594" Bore	10
JD350 ... Crawler Tractor	2.2L 135 OHV L3 3.8594" Bore	10
JD350 ... Wheel Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
JD350 ... Crawler Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
JD380 ... Wheel Tractor	2.2L 135 OHV L3 3.8594" Bore	10
JD380 ... Wheel Tractor	2.2L 135 OHV Diesel L3 3.8594" Bore	11
JD380 ... Forklift	2.5L 152 OHV Diesel L3 3.8594" Bore	18
JD400 ... Wheel Tractor	2.9L 180 OHV L4 3.8594" Bore	31
JD400 ... Loader Tractor	2.9L 180 OHV L4 3.8594" Bore	31
JD400 ... Wheel Tractor	3.3L 202 OHV L4 3.8594" Bore	37
JD400 ... Wheel Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38
JD400 ... Loader Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38
JD401B ... Loader	3.3L 202 OHV Diesel L4 3.8594" Bore	38
JD401C ... Loader	3.3L 202 OHV Diesel L4 3.8594" Bore	38
JD404D ... Power Unit	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
JD404D ... Power Unit	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
JD407 ... Forklift	2.9L 180 OHV L4 3.8594" Bore	31
JD410 ... Loader Tractor	3.3L 202 OHV L4 3.8594" Bore	37
JD410 ... Loader	3.3L 202 OHV Diesel L4 3.8594" Bore	38
JD410 ... Loader Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
JD440 ... Wheel Tractor	2.9L 180 OHV L4 3.8594" Bore	31
JD440 ... Skidder	2.9L 180 OHV L4 3.8594" Bore	31
JD440 ... Wheel Tractor	3.3L 202 OHV L4 3.8594" Bore	37
JD440 ... Wheel Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38
JD440 ... Skidder	3.3L 202 OHV Diesel L4 3.8594" Bore	38
JD440 ... Skidder	3.6L 219 OHV Diesel L4 4.0156" Bore	41
JD440 ... Skidder	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore	42
JD440C ... Skidder	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
JD450 ... Wheel Tractor	2.9L 180 OHV L4 3.8594" Bore	31
JD450 ... Crawler Tractor	2.9L 180 OHV L4 3.8594" Bore	31
JD450 ... Loader Tractor	2.9L 180 OHV L4 3.8594" Bore	31
JD450 ... Crawler Tractor	2.9L 180 OHV Diesel L4 3.8594" Bore	32
JD450 ... Wheel Tractor	3.3L 202 OHV L4 3.8594" Bore	37
JD450 ... Crawler Tractor	3.3L 202 OHV L4 3.8594" Bore	37
JD450 ... Wheel Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38
JD450 ... Crawler Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38
JD450 ... Loader Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38
JD450B ... Crawler Tractor	3.6L 219 OHV L4 4.0156" Bore	40
JD450B ... Crawler Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
JD450B ... Crawler Tractor	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore	42
JD450C ... Crawler Tractor	3.6L 219 OHV L4 4.0156" Bore	40
JD450C ... Crawler Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
JD450C ... Crawler Tractor	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore	42
JD480 ... Wheel Tractor	2.9L 180 OHV L4 3.8594" Bore	31
JD480 ... Forklift	3.3L 202 OHV Diesel L4 3.8594" Bore	38
JD480 ... Wheel Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38
JD480B ... Forklift	3.6L 219 OHV Diesel L4 4.0156" Bore	41
JD500 ... Wheel Tractor	3.3L 201 OHV L4 4" Bore	36
JD500 ... Loader Tractor	3.7L 227 OHV L4 4.25" Bore	46
JD500 ... Loader Tractor	3.7L 227 OHV LPG L4 4.25" Bore	47
JD500 ... Loader Tractor	3.9L 241 OHV L4 4.25" Bore	54
JD500 ... Loader Tractor	3.9L 241 OHV LPG L4 4.25" Bore	55
JD500 ... Loader Tractor	3.9L 241 OHV NG L4 4.25" Bore	56
JD500 ... Wheel Tractor	4.2L 254 OHV Diesel L4 4.125" Bore	59
JD500 ... Wheel Tractor	4.4L 270 OHV Diesel L4 4.25" Bore	60
JD500 ... Loader Tractor	4.4L 270 OHV Diesel L4 4.25" Bore	60
JD500A ... Loader Tractor	3.9L 241 OHV L4 4.25" Bore	54
JD500A ... Loader Tractor	3.9L 241 OHV LPG L4 4.25" Bore	55
JD500A ... Loader Tractor	3.9L 241 OHV NG L4 4.25" Bore	56
JD500A ... Loader Tractor	4.4L 270 OHV Diesel L4 4.25" Bore	60
JD500A ... Backhoe	4.4L 270 OHV Diesel L4 4.25" Bore	60
JD500B ... Loader Tractor	3.7L 227 OHV L4 4.25" Bore	46
JD500B ... Loader Tractor	3.7L 227 OHV LPG L4 4.25" Bore	47
JD500B ... Loader Tractor	3.9L 241 OHV L4 4.25" Bore	54
JD500B ... Loader Tractor	3.9L 241 OHV LPG L4 4.25" Bore	55
JD500B ... Loader Tractor	3.9L 241 OHV NG L4 4.25" Bore	56

(continued on next page)

Model Index

Model	Engine Description	Line No.
JD500B ... Backhoe	4.4L 270 OHV Diesel L4 4.25" Bore	60
JD500C ... Loader Tractor	3.9L 241 OHV L4 4.25" Bore	54
JD500C ... Loader Tractor	3.9L 241 OHV LPG L4 4.25" Bore	55
JD500C ... Loader Tractor	3.9L 241 OHV NG L4 4.25" Bore	56
JD500C ... Backhoe	4.4L 270 OHV Diesel L4 4.25" Bore	60
JD510 ... Backhoe	4.4L 270 OHV Diesel L4 4.25" Bore	60
JD540 ... Wheel Tractor	5.4L 329 OHV Diesel L6 4.0156" Bore	78
JD540B ... Skidder	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
JD544 ... Wheel Tractor	2.5L 152 OHV L3 3.8594" Bore	17
JD544 ... Wheel Tractor	2.7L 164 OHV L3 4.0156" Bore	22
JD544 ... Loader Tractor	5.0L 303 OHV L6 3.8594" Bore	72
JD544 ... Loader Tractor	5.0L 303 OHV Diesel L6 3.8594" Bore	73
JD544 ... Loader Tractor	5.0L 303 OHV LPG L6 3.8594" Bore	74
JD544 ... Loader	5.4L 329 OHV Diesel L6 4.0156" Bore	78
JD544 ... Wheel Tractor	5.4L 329 OHV Diesel L6 4.0156" Bore	78
JD544 ... Loader	5.4L 329 OHV Turbo-Diesel L6 4.0156" Bore	80
JD544 To Ser. No. 165808 ... Loader	5.0L 303 OHV Diesel L6 3.8594" Bore	73
JD544B ... Loader Tractor	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
JD544B ... Loader Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
JD544C ... Loader Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
JD544D ... Loader Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
JD555 ... Loader Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
JD570 ... Grader	5.0L 303 OHV Diesel L6 3.8594" Bore	73
JD570 ... Wheel Tractor	5.4L 329 OHV Diesel L6 4.0156" Bore	78
JD570A ... Wheel Tractor	5.4L 329 OHV Diesel L6 4.0156" Bore	78
JD600 ... Wheel Tractor	5.6L 340 OHV L6 4.25" Bore	81
JD600 ... Loader Tractor	5.6L 340 OHV L6 4.25" Bore	81
JD600 ... Loader Tractor	5.6L 340 OHV LPG L6 4.25" Bore	82
JD600 ... Wheel Tractor	5.9L 362 OHV L6 4.25" Bore	87
JD600 ... Loader Tractor	5.9L 362 OHV L6 4.25" Bore	87
JD600 ... Wheel Tractor	5.9L 362 OHV LPG L6 4.25" Bore	88
JD600 ... Wheel Tractor	5.9L 362 OHV NG L6 4.25" Bore	89
JD600 ... Wheel Tractor	6.2L 381 OHV Diesel L6 4.125" Bore	94
JD600 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
JD600 ... Loader Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
JD600 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
JD600 ... Loader Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
JD640 ... Skidder	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
JD640 ... Loader Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
JD640 ... Skidder	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
JD640D ... Skidder	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
JD640GS ... Skidder	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
JD644A ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
JD644A ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
JD644C ... Wheel Tractor	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
JD644C ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
JD648D ... Skidder	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
JD655 ... Loader Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
JD655B ... Crawler Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
JD670 ... Grader	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
JD670 ... Grader	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
JD670A ... Grader	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
JD670A ... Grader	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
JD670B ... Grader	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
JD672 ... Grader	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
JD672A ... Grader	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
JD672B ... Grader	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
JD700A ... Wheel Tractor	8.7L 531 OHV Diesel L6 4.75" Bore	122
JD740A ... Skidder	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
JD743 ... Wheel Tractor	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
JD750 ... Crawler Tractor	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
JD750 ... Crawler Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
JD750B ... Crawler Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
JD755 ... Crawler Tractor	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
JD755A ... Loader Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
JD760 ... Scraper	8.7L 531 OHV Diesel L6 4.75" Bore	122
JD760A ... Scraper	8.7L 531 OHV Diesel L6 4.75" Bore	122
JD760A ... Wheel Tractor	8.7L 531 OHV Diesel L6 4.75" Bore	122
JD762A ... Scraper	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
JD904A ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
JD904A ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
M ... Wheel Tractor	1.6L 100 OHV L2 4" Bore	3
MC ... Wheel Tractor	1.6L 100 OHV L2 4" Bore	3
MCT ... Wheel Tractor	1.6L 100 OHV L2 4" Bore	3
MT ... Wheel Tractor	1.6L 100 OHV L2 4" Bore	3
NA ... Combine	3.6L 217 OHV L6 3.625" Bore	39
No. 17 ... Combine	4.6L 282 L-HEAD L6 3.75" Bore (Hercules Eng.)	69
No. 33 ... Combine	2.2L 133 L-HEAD L4 3.25" Bore (Hercules Eng.)	9
No. 35 Hillside ... Combine	3.6L 222 L-HEAD L6 3.375" Bore (Hercules Eng.)	43
No. 35 Hillside ... Combine	3.7L 226 OHV L4 4" Bore (Hercules Eng.)	45

(continued on next page)

Model Index

Model	Engine Description	Line No.
No. 36 ... Combine	4.6L 282 L-HEAD L6 3.75" Bore (Hercules Eng.)	69
No. 36A ... Combine	4.6L 282 L-HEAD L6 3.75" Bore (Hercules Eng.)	69
No. 36B ... Combine	4.6L 282 L-HEAD L6 3.75" Bore (Hercules Eng.)	69
No. 36H ... Combine	4.6L 282 L-HEAD L6 3.75" Bore (Hercules Eng.)	69
No. 36P ... Combine	4.6L 282 L-HEAD L6 3.75" Bore (Hercules Eng.)	69
No. 38 Hillside ... Combine	1.9L 113 L-HEAD L4 3" Bore (Hercules Eng.)	6
No. 38 Hillside ... Combine	2.2L 133 L-HEAD L4 3.25" Bore (Hercules Eng.)	9
No. 5A ... Combine	3.6L 222 L-HEAD L6 3.375" Bore (Hercules Eng.)	43
No. 5A ... Combine	3.7L 226 OHV L4 4" Bore (Hercules Eng.)	45
No. 6 ... Combine	1.9L 113 L-HEAD L4 3" Bore (Hercules Eng.)	6
No. 7 ... Combine	1.9L 113 L-HEAD L4 3" Bore (Hercules Eng.)	6
No. 7 ... Combine	2.2L 133 L-HEAD L4 3.25" Bore (Hercules Eng.)	9
No. 7 Prairie ... Combine	2.2L 133 L-HEAD L4 3.25" Bore (Hercules Eng.)	9
No. 7 Prarie ... Combine	1.9L 113 L-HEAD L4 3" Bore (Hercules Eng.)	6
No. 8 ... Combine	2.7L 162 L-HEAD L4 3.4375" Bore (Continental Eng.)	21
No. 8 ... Harvester	2.7L 162 L-HEAD L4 3.4375" Bore (Continental Eng.)	21
No. 9 Prairie ... Combine	3.6L 222 L-HEAD L6 3.375" Bore (Hercules Eng.)	43
TA ... Combine	3.6L 217 OHV L6 3.625" Bore	39
TC44H ... Integrated Tool Carrier	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
TC44H ... Integrated Tool Carrier	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
TC54H ... Integrated Tool Carrier	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
TC54H ... Integrated Tool Carrier	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
TC62H ... Integrated Tool Carrier	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
TC62H ... Integrated Tool Carrier	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
10 ... Hay Baler	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	19
10 Ft. ... Windrower	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
1010 ... Wheel Tractor	1.9L 115 OHV L4 3.5" Bore	8
1010 ... Wheel Tractor	2.4L 145 OHV Diesel L4 3.625" Bore	15
1010 ... Wheel Tractor	2.5L 155 OHV Diesel L4 3.75" Bore	20
1010C ... Crawler Tractor	1.9L 115 OHV L4 3.5" Bore	8
1010C ... Crawler Tractor	2.4L 145 OHV Diesel L4 3.625" Bore	15
1010D ... Forestry Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
1010D ... Forestry Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
1020 ... Wheel Tractor	2.2L 135 OHV L3 3.8594" Bore	10
1020 ... Wheel Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
1030 ... Wheel Tractor	2.7L 164 OHV Diesel L3 4.0156" Bore	23
1040 ... Wheel Tractor	2.9L 179 OHV Diesel L3 4.1875" Bore (Standard)	27
105 ... Combine	4.9L 302 OHV L6 4" Bore	71
105 ... Combine	5.6L 340 OHV L6 4.25" Bore	81
105 ... Combine	5.9L 362 OHV L6 4.25" Bore	87
105 ... Combine	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
105 ... Combine	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
105R ... Combine	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
105R ... Combine	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
1070D ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
1070D ... Harvester	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
1070D ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
110 ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
110 ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
1110D ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
1110D ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
1130 ... Wheel Tractor	2.7L 164 OHV Diesel L3 4.0156" Bore	23
114W ... Hay Baler	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
1140 ... Wheel Tractor	2.9L 179 OHV Diesel L3 4.1875" Bore (Standard)	27
115 ... Combine	2.7L 165 OHV L4 3.875" Bore	24
115G ... Power Unit	1.9L 115 OHV L4 3.5" Bore	8
115G ... Power Unit	2.4L 145 OHV L4 3.625" Bore	13
116W ... Hay Baler	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
1165 ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
1165 ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
1170 ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
1170 ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
1175 ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102

(continued on next page)

Model Index

Model	Engine Description	Line No.
1175 ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
1175H ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
1175H ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
12 ... Harvester	3.6L 217 OHV L6 3.625" Bore	39
12 Ft. ... Windrower	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
120 ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
120 ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
120C ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
120C ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
1270D ... Harvester	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
1270D ... Harvester	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
1270D ... Harvester	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
135G ... Power Unit	2.2L 135 OHV L3 3.8594" Bore	10
14 Ft. ... Windrower	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
1410D ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
1410D ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
145G ... Power Unit	2.4L 145 OHV L4 3.625" Bore	13
145G ... Power Unit	2.4L 145 OHV L4 3.625" Bore (Late)	14
1450 ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
1450 ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
1470D ... Harvester	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
1470D ... Harvester	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
1470D ... Harvester	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
1490D ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
1490D ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
152D ... Power Unit	2.5L 152 OHV Diesel L3 3.8594" Bore	18
1520 ... Wheel Tractor	2.5L 152 OHV L3 3.8594" Bore	17
1520 ... Wheel Tractor	2.7L 164 OHV Diesel L3 4.0156" Bore	23
1530 ... Wheel Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
1530 ... Wheel Tractor	2.7L 164 OHV Diesel L3 4.0156" Bore	23
155D ... Power Unit	2.5L 155 OHV Diesel L4 3.75" Bore	20
155D ... Power Unit	2.7L 165 OHV Diesel L4 3.875" Bore	25
1550 ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
1550 ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
16 Ft. ... Windrower	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
160CLC ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
160CLC ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
160LC ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
160LC ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
1630 ... Wheel Tractor	2.9L 179 OHV Diesel L3 4.1875" Bore (Standard)	27
164D ... Power Unit	2.7L 164 OHV Diesel L3 4.0156" Bore	23
1640 ... Wheel Tractor	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
165D ... Power Unit	2.7L 165 OHV Diesel L4 3.875" Bore	25
165G ... Power Unit	2.4L 145 OHV L4 3.625" Bore	13
165G ... Power Unit	2.4L 145 OHV L4 3.625" Bore (Late)	14
165G ... Power Unit	2.7L 165 OHV L4 3.875" Bore	24
1710D ... Forestry Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
1710D ... Forestry Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
1710D ... Forestry Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
180G ... Power Unit	2.9L 180 OHV L4 3.8594" Bore	31
1830 ... Wheel Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
1830 ... Wheel Tractor	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore	42
1840 ... Wheel Tractor	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
190E ... Excavator	3.9L 239 (3917cc) OHV Diesel L4 106mm Bore (Litre Engine)	52
200 ... Windrower	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
200CLC ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
200CLC ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
200LC ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
200LC ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
2010 ... Wheel Tractor	2.4L 145 OHV L4 3.625" Bore	13
2010 ... Wheel Tractor	2.4L 145 OHV L4 3.625" Bore (Late)	14

(continued on next page)

Model Index

Model	Engine Description	Line No.
2010 ... Wheel Tractor	2.7L 165 OHV Diesel L4 3.875" Bore	25
202D ... Power Unit	3.3L 202 OHV Diesel L4 3.8594" Bore	38
202G ... Power Unit	3.3L 202 OHV L4 3.8594" Bore	37
2020 ... Wheel Tractor	2.9L 180 OHV L4 3.8594" Bore	31
2020 ... Wheel Tractor	3.3L 202 OHV L4 3.8594" Bore	37
2020 ... Wheel Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38
2020 ... Wheel Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
2030 ... Wheel Tractor	2.9L 180 OHV L4 3.8594" Bore	31
2030 ... Wheel Tractor	3.6L 219 OHV L4 4.0156" Bore	40
2030 ... Wheel Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
2040 ... Wheel Tractor	2.7L 164 OHV Diesel L3 4.0156" Bore	23
2040 ... Wheel Tractor	2.9L 179 OHV Diesel L3 4.1875" Bore (Standard)	27
2040 ... Wheel Tractor	2.9L 179 OHV Turbo-Diesel L3 4.1875" Bore (Standard)	28
2040 ... Wheel Tractor	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
2040S ... Wheel Tractor	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
2054 ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
2054 ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
210C ... Backhoe	3.6L 219 OHV Diesel L4 4.0156" Bore	41
210C ... Backhoe	3.9L 239 (3917cc) OHV Diesel L4 106mm Bore (Litre Engine)	52
210LE ... Loader Tractor	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
210LE ... Loader Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
2130 ... Wheel Tractor	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
2130 ... Wheel Tractor	3.9L 239 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	51
214T ... Power Unit	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
214W ... Power Unit	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
2140 ... Wheel Tractor	3.9L 239 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	51
215 ... Windrower	1.9L 115 OHV L4 3.5" Bore	8
2150 ... Wheel Tractor	2.9L 179 OHV Diesel L3 4.1875" Bore (Standard)	27
216T ... Power Unit	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
216WS ... Power Unit	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
217G ... Power Unit	3.6L 217 OHV L6 3.625" Bore	39
224T ... Power Unit	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
224WS ... Power Unit	1.8L 108 L-HEAD V4 3.25" Bore (Wisconsin Eng.)	5
2240 ... Wheel Tractor	2.9L 179 OHV Diesel L3 4.1875" Bore (Standard)	27
2240 ... Wheel Tractor	2.9L 179 OHV Turbo-Diesel L3 4.1875" Bore (Standard)	28
2255 ... Wheel Tractor	2.9L 179 OHV Diesel L3 4.1875" Bore (Standard)	27
2270 ... Windrower	3.6L 219 OHV Diesel L4 4.0156" Bore	41
2280 ... Wheel Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
2280 ... Windrower	3.6L 219 OHV Diesel L4 4.0156" Bore	41
230CLC ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
230CLC ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
230LC ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
230LC ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
230LCR ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
230LCR ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
230LCRD ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
230LCRD ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
230LCRD ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
2320 ... Windrower	3.7L 225 OHV L6 3.4063" Bore (Chrysler Eng.)	44
2350 ... Wheel Tractor	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
2355 ... Wheel Tractor	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
2355N ... Wheel Tractor	2.9L 179 OHV Turbo-Diesel L3 4.1875" Bore (Standard)	28
2360 ... Windrower	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
240 ... Track Loader	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
240-II ... Track Loader	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
240DLC ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
2420 ... Windrower	3.6L 219 OHV Diesel L4 4.0156" Bore	41
2420 ... Windrower	3.7L 225 OHV L6 3.4063" Bore (Chrysler Eng.)	44
2440 ... Wheel Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
250 ... Track Loader	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
250-II ... Track Loader	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
250D ... Off-Highway Truck	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
250D ... Off-Highway Truck	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
2510 ... Wheel Tractor	2.9L 180 OHV L4 3.8594" Bore	31
2510 ... Wheel Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38
2510 ... Wheel Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
2520 ... Wheel Tractor	2.9L 180 OHV L4 3.8594" Bore	31
2520 ... Wheel Tractor	3.3L 202 OHV L4 3.8594" Bore	37
2520 ... Wheel Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41

(continued on next page)

Model Index

Model	Engine Description	Line No.
254D ... Power Unit	4.2L 254 OHV Diesel L4 4.125" Bore	59
2550 ... Wheel Tractor	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
2554 ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
2554 ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
2555 ... Wheel Tractor	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
2555 ... Wheel Tractor	3.9L 239 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	51
260 ... Track Loader	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
260-II ... Track Loader	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
2630 ... Wheel Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
2640 ... Wheel Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
270 ... Track Loader	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
270CLC ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
270CLC ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
270DLC ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
270LC ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
270LC ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
2750 ... Wheel Tractor	3.9L 239 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	51
2755 ... Wheel Tractor	3.9L 239 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	51
280 ... Track Loader	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
2840 ... Wheel Tractor	5.4L 329 OHV Diesel L6 4.0156" Bore	78
2855N ... Wheel Tractor	3.9L 239 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	51
290D ... Excavator	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
2940 ... Wheel Tractor	5.9L 359 OHV Diesel L6 4.1875" Bore	85
2940 ... Wheel Tractor	5.9L 359 OHV Turbo-Diesel L6 4.1875" Bore	86
2950 ... Wheel Tractor	5.9L 359 OHV Diesel L6 4.1875" Bore	85
2955 ... Wheel Tractor	5.9L 359 OHV Diesel L6 4.1875" Bore	85
300 ... Wheel Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
300B ... Loader	2.2L 135 OHV L3 3.8594" Bore	10
300B ... Loader	2.5L 152 OHV L3 3.8594" Bore	17
300B ... Loader	2.5L 152 OHV Diesel L3 3.8594" Bore	18
300B ... Wheel Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
300B ... Wheel Tractor	2.7L 164 OHV Diesel L3 4.0156" Bore	23
300D ... Off-Highway Truck	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
300D ... Off-Highway Truck	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
301 ... Wheel Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
301A ... Loader	2.2L 135 OHV L3 3.8594" Bore	10
301A ... Loader	2.5L 152 OHV L3 3.8594" Bore	17
301A ... Loader	2.5L 152 OHV Diesel L3 3.8594" Bore	18
301A ... Wheel Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
301A ... Wheel Tractor	2.7L 164 OHV Diesel L3 4.0156" Bore	23
301AA ... Wheel Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
3010 ... Wheel Tractor	3.3L 201 OHV L4 4" Bore	36
3010 ... Wheel Tractor	4.2L 254 OHV Diesel L4 4.125" Bore	59
302 ... Wheel Tractor	2.7L 164 OHV Diesel L3 4.0156" Bore	23
302A ... Wheel Tractor	2.7L 164 OHV Diesel L3 4.0156" Bore	23
3020 ... Wheel Tractor	3.3L 201 OHV L4 4" Bore	36
3020 ... Wheel Tractor	3.7L 227 OHV L4 4.25" Bore	46
3020 ... Wheel Tractor	3.7L 227 OHV LPG L4 4.25" Bore	47
3020 ... Wheel Tractor	3.9L 241 OHV L4 4.25" Bore	54
3020 ... Wheel Tractor	3.9L 241 OHV LPG L4 4.25" Bore	55
3020 ... Wheel Tractor	3.9L 241 OHV NG L4 4.25" Bore	56
3020 ... Wheel Tractor	4.4L 270 OHV Diesel L4 4.25" Bore	60
3029DF120 ... Power Unit	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
3029DF128 ... Power Unit	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
3029DF150 ... Power Unit	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
3029DF151 ... Power Unit	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
3029DF152 ... Power Unit	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
3029DF160 ... Power Unit	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
3029DF180 ... Power Unit	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
3029TF120 ... Power Unit	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
3029TF150 ... Power Unit	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
3029TF152 ... Power Unit	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
3029TF158 ... Power Unit	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
3029TF160 ... Power Unit	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
3029TF180 ... Power Unit	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
3029TF270 ... Power Unit	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
303D ... Power Unit	5.0L 303 OHV Diesel L6 3.8594" Bore	73
303G ... Power Unit	5.0L 303 OHV L6 3.8594" Bore	72

(continued on next page)

Model Index

Model	Engine Description	Line No.
303G ... Power Unit	5.0L 303 OHV LPG L6 3.8594" Bore	74
303L ... Power Unit	5.0L 303 OHV L6 3.8594" Bore	72
303L ... Power Unit	5.0L 303 OHV LPG L6 3.8594" Bore	74
310 ... Backhoe	2.7L 164 OHV Diesel L3 4.0156" Bore	23
310A ... Loader	3.3L 202 OHV Diesel L4 3.8594" Bore	38
310A ... Loader	3.6L 219 OHV Diesel L4 4.0156" Bore	41
310A ... Backhoe	3.6L 219 OHV Diesel L4 4.0156" Bore	41
310B ... Backhoe	3.6L 219 OHV Diesel L4 4.0156" Bore	41
310C ... Backhoe	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
310C ... Backhoe	3.9L 239 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	51
310D ... Backhoe	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
310D ... Backhoe	3.9L 239 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	51
310D ... Backhoe	3.9L 239 (3917cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	53
310E ... Backhoe	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
310E ... Backhoe	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
310G ... Backhoe	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
310G ... Backhoe	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
310SE ... Backhoe	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
310SG ... Backhoe	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
3110 ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
3130 ... Wheel Tractor	5.4L 329 OHV Diesel L6 4.0156" Bore	78
3130 ... Wheel Tractor	5.4L 329 OHV Turbo-Diesel L6 4.0156" Bore	80
3135G ... Power Unit	2.2L 135 OHV L3 3.8594" Bore	10
3140 ... Wheel Tractor	5.4L 329 OHV Diesel L6 4.0156" Bore	78
3140 ... Wheel Tractor	5.4L 329 OHV Turbo-Diesel L6 4.0156" Bore	80
315SE ... Backhoe	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
315SG ... Backhoe	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
3150 ... Wheel Tractor	5.9L 359 OHV Diesel L6 4.1875" Bore	85
3152D ... Power Unit	2.5L 152 OHV Diesel L3 3.8594" Bore	18
3155 ... Wheel Tractor	5.9L 359 OHV Diesel L6 4.1875" Bore	85
3164D ... Power Unit	2.7L 164 OHV Diesel L3 4.0156" Bore	23
320 ... Wheel Tractor	1.6L 100 OHV L2 4" Bore	3
3200 ... Telehandler	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
3200 ... Telehandler	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
3215 ... Telehandler	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
3215 ... Telehandler	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
3220 ... Telehandler	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
3220 ... Telehandler	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
324H ... Loader Tractor	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
329 ... Power Unit	5.4L 329 OHV L6 4.0156" Bore	77
329 ... Power Unit	5.4L 329 OHV LPG L6 4.0156" Bore	79
329D ... Power Unit	5.4L 329 OHV Diesel L6 4.0156" Bore	78
329G ... Power Unit	5.4L 329 OHV L6 4.0156" Bore	77
329G ... Power Unit	5.4L 329 OHV LPG L6 4.0156" Bore	79
33 ... Combine	2.2L 133 L-HEAD L4 3.25" Bore (Hercules Eng.)	9
330 ... Wheel Tractor	1.6L 100 OHV L2 4" Bore	3
330B ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
330B ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
330CLC ... Excavator	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
330CLC ... Excavator	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
330CLC ... Excavator	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
330LC ... Excavator	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
330LC ... Excavator	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
330LC ... Excavator	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
330LCR ... Excavator	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
330LCR ... Excavator	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
330LCR ... Excavator	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
3300 ... Combine	2.7L 164 OHV Diesel L3 4.0156" Bore	23
3300 ... Combine	3.3L 202 OHV L4 3.8594" Bore	37
3300 ... Combine	3.6L 219 OHV L4 4.0156" Bore	40
3300 ... Combine	3.6L 219 OHV Diesel L4 4.0156" Bore	41
3300 ... Combine	5.4L 329 OHV L6 4.0156" Bore	77
3300 ... Combine	5.4L 329 OHV LPG L6 4.0156" Bore	79
335 ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102

(continued on next page)

Model Index

Model	Engine Description	Line No.
335 ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
335C ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
335C ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
340D ... Wheel Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
340D ... Skidder	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
3400 ... Telehandler	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
3400 ... Telehandler	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
341G ... Power Unit	5.6L 340 OHV L6 4.25" Bore	81
3415 ... Telehandler	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
3415 ... Telehandler	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
3420 ... Telehandler	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
3420 ... Telehandler	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
3430 ... Windrower	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
344E ... Loader	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
344E ... Loader	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (Litre Engine)	63
344G ... Loader	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
344H ... Loader Tractor	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
344H ... Loader Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
350 ... Crawler Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
350B ... Crawler Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
350C ... Crawler Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
350C ... Crawler Tractor	2.7L 164 OHV Diesel L3 4.0156" Bore	23
350D ... Crawler Tractor	2.9L 179 OHV Diesel L3 4.1875" Bore (Standard)	27
355D ... Crawler Tractor	2.9L 179 OHV Diesel L3 4.1875" Bore (Standard)	27
3554 ... Logger	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
3554 ... Logger	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
3554 ... Logger	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
360DC ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
360DC ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
360DG ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
360DG ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
362G ... Power Unit	5.9L 362 OHV L6 4.25" Bore	87
370 ... Excavator	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
370 ... Excavator	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
370 ... Excavator	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
370C ... Excavator	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
370C ... Excavator	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
370C ... Excavator	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
380 ... Forklift	2.5L 152 OHV Diesel L3 3.8594" Bore	18
3800 ... Telehandler	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
3800 ... Telehandler	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
3830 ... Windrower	3.9L 239 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	51
40 ... Wheel Tractor	1.6L 100 OHV L2 4" Bore	3
40 ... Combine	1.9L 115 OHV L4 3.5" Bore	8
40 ... Combine	2.7L 165 OHV Diesel L4 3.875" Bore	25
40C ... Wheel Tractor	1.6L 100 OHV L2 4" Bore	3
40M ... Wheel Tractor	1.6L 100 OHV L2 4" Bore	3
40T ... Wheel Tractor	1.6L 100 OHV L2 4" Bore	3
40U ... Wheel Tractor	1.6L 100 OHV L2 4" Bore	3
400 ... Wheel Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38
400G ... Crawler Tractor	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
400G ... Crawler Tractor	3.9L 239 (3917cc) OHV Diesel L4 106mm Bore (Litre Engine)	52
4000 ... Wheel Tractor	4.9L 302 OHV L6 4" Bore	71
4000 ... Wheel Tractor	5.6L 340 OHV L6 4.25" Bore	81
4000 ... Wheel Tractor	5.6L 340 OHV LPG L6 4.25" Bore	82
4000 ... Wheel Tractor	5.9L 362 OHV L6 4.25" Bore	87
4000 ... Wheel Tractor	5.9L 362 OHV LPG L6 4.25" Bore	88
4000 ... Wheel Tractor	5.9L 362 OHV NG L6 4.25" Bore	89
4000 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
4000 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
4000 ... Wheel Tractor	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
401 ... Wheel Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38
401B ... Wheel Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
401C ... Wheel Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
401D ... Wheel Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
401D ... Backhoe	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (Litre Engine)	63

(continued on next page)

Model Index

Model	Engine Description	Line No.
401D ... Backhoe	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
401D ... Backhoe	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
4010 ... Wheel Tractor	4.9L 302 OHV L6 4" Bore	71
4010 ... Wheel Tractor	5.6L 340 OHV L6 4.25" Bore	81
4010 ... Wheel Tractor	5.6L 340 OHV LPG L6 4.25" Bore	82
4010 ... Wheel Tractor	6.2L 381 OHV Diesel L6 4.125" Bore	94
4010 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
4020 ... Wheel Tractor	4.9L 302 OHV L6 4" Bore	71
4020 ... Wheel Tractor	5.6L 340 OHV L6 4.25" Bore	81
4020 ... Wheel Tractor	5.6L 340 OHV LPG L6 4.25" Bore	82
4020 ... Wheel Tractor	5.9L 362 OHV L6 4.25" Bore	87
4020 ... Wheel Tractor	5.9L 362 OHV LPG L6 4.25" Bore	88
4020 ... Wheel Tractor	5.9L 362 OHV NG L6 4.25" Bore	89
4020 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
4020 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
4030 ... Wheel Tractor	5.0L 303 OHV L6 3.8594" Bore	72
4030 ... Wheel Tractor	5.0L 303 OHV LPG L6 3.8594" Bore	74
4030 ... Wheel Tractor	5.4L 329 OHV Diesel L6 4.0156" Bore	78
404 ... Power Unit	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
404 ... Power Unit	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
4040 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
4040 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
4040 ... Wheel Tractor	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
4040 ... Wheel Tractor	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
4045DF120 ... Power Unit	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
4045DF150 ... Power Unit	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
4045DF158 ... Power Unit	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
4045DF270 ... Power Unit	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
4045HF ... Power Unit	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
4045HF475 ... Power Unit	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 4V IC)	62
4045HF485 ... Power Unit	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 4V IC)	62
4045TF ... Power Unit	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
4045TF150 ... Power Unit	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
4050 ... Wheel Tractor	5.9L 359 OHV Turbo-Diesel L6 4.1875" Bore	86
4050 ... Wheel Tractor	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
4055 ... Wheel Tractor	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
410 ... Backhoe	3.6L 219 OHV Diesel L4 4.0156" Bore	41
410B ... Wheel Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
410B ... Backhoe	3.6L 219 OHV Diesel L4 4.0156" Bore	41
410B ... Backhoe	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore	42
410C ... Backhoe	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
410C ... Backhoe	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
410D ... Backhoe	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
410D ... Backhoe	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
410D ... Backhoe	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
410E ... Backhoe	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
410G ... Backhoe	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
4180G ... Power Unit	2.9L 180 OHV L4 3.8594" Bore	31
420 ... Wheel Tractor	1.9L 113 OHV L2 4.25" Bore	7
4202D ... Power Unit	3.3L 202 OHV Diesel L4 3.8594" Bore	38
4202G ... Power Unit	3.3L 202 OHV L4 3.8594" Bore	37
4219D ... Power Unit	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4219G ... Power Unit	3.6L 219 OHV L4 4.0156" Bore	40
4230 ... Wheel Tractor	4.9L 302 OHV L6 4" Bore	71
4230 ... Wheel Tractor	5.0L 303 OHV L6 3.8594" Bore	72
4230 ... Wheel Tractor	5.0L 303 OHV LPG L6 3.8594" Bore	74
4230 ... Wheel Tractor	5.4L 329 OHV Diesel L6 4.0156" Bore	78
4230 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
4230 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
4230 ... Wheel Tractor	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
4240 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
4240 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
4240 ... Wheel Tractor	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
4240 ... Wheel Tractor	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
4240 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
4250 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
4255 ... Wheel Tractor	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
428 ... Cotton Picker	5.4L 329 OHV L6 4.0156" Bore	77
428 ... Cotton Picker	5.4L 329 OHV Diesel L6 4.0156" Bore	78
428 ... Cotton Picker	5.4L 329 OHV LPG L6 4.0156" Bore	79
430 ... Wheel Tractor	1.9L 113 OHV L2 4.25" Bore	7
430B ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
430B ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108

(continued on next page)

Model Index

Model	Engine Description	Line No.
430B-II ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
430B-II ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
4320 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
4320 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
4320 ... Wheel Tractor	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
4320 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
435 ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
435 ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
435-II ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
435-II ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
435C ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
435C ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
435D ... Wheel Tractor	1.7L 106 OHV Diesel L2 3.875" Bore (Detroit Diesel Eng.)	4
435D ... Wheel Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
437C ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
437C ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
440 ... Wheel Tractor	1.9L 113 OHV L2 4.25" Bore	7
440 From Ser. No. 50000 ... Skidder	3.6L 219 OHV Diesel L4 4.0156" Bore	41
440 To Ser. No. 49999 ... Skidder	3.3L 202 OHV Diesel L4 3.8594" Bore	38
440A From Ser. No. 50000 ... Skidder	3.6L 219 OHV Diesel L4 4.0156" Bore	41
440A To Ser. No. 49999 ... Skidder	3.3L 202 OHV Diesel L4 3.8594" Bore	38
440B From Ser. No. 50000 ... Skidder	3.6L 219 OHV Diesel L4 4.0156" Bore	41
440B To Ser. No. 49999 ... Skidder	3.3L 202 OHV Diesel L4 3.8594" Bore	38
440C ... Skidder	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
440C ... Skidder	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
440D ... Wheel Tractor	1.7L 106 OHV Diesel L2 3.875" Bore (Detroit Diesel Eng.)	4
440D ... Wheel Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
440D ... Skidder	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
4400 ... Wheel Tractor	1.7L 106 OHV Diesel L2 3.875" Bore (Detroit Diesel Eng.)	4
4400 ... Combine	2.7L 164 OHV Diesel L3 4.0156" Bore	23
4400 ... Combine	3.6L 219 OHV Diesel L4 4.0156" Bore	41
4400 ... Combine	5.4L 329 OHV L6 4.0156" Bore	77
4400 ... Combine	5.4L 329 OHV Diesel L6 4.0156" Bore	78
4400 ... Combine	5.4L 329 OHV LPG L6 4.0156" Bore	79
4401D ... Wheel Tractor	1.7L 106 OHV Diesel L2 3.875" Bore (Detroit Diesel Eng.)	4
4420 ... Combine	2.7L 164 OHV Diesel L3 4.0156" Bore	23
4420 ... Combine	3.6L 219 OHV L4 4.0156" Bore	40
4420 ... Combine	5.4L 329 OHV Diesel L6 4.0156" Bore	78
4420 ... Wheel Tractor	5.4L 329 OHV Diesel L6 4.0156" Bore	78
4425 ... Combine	5.9L 359 OHV Diesel L6 4.1875" Bore	85
4430 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
4430 ... Wheel Tractor	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
4430 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
4435 ... Combine	5.9L 359 OHV Diesel L6 4.1875" Bore	85
444 ... Loader	5.4L 329 OHV Diesel L6 4.0156" Bore	78
444 ... Loader	5.4L 329 OHV Turbo-Diesel L6 4.0156" Bore	80
444C ... Loader	5.4L 329 OHV Diesel L6 4.0156" Bore	78
444C ... Loader	5.4L 329 OHV Turbo-Diesel L6 4.0156" Bore	80
444CH ... Loader	5.4L 329 OHV Diesel L6 4.0156" Bore	78
444D ... Loader	5.4L 329 OHV Diesel L6 4.0156" Bore	78
444D ... Loader	5.4L 329 OHV Turbo-Diesel L6 4.0156" Bore	80
444E ... Loader	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
444E ... Loader	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
444G ... Loader	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
444H ... Loader Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
444H ... Loader Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
444HLL ... Forestry Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
444HLL ... Forestry Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
444J ... Loader Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
444J ... Loader Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
4440 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
4440 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96

(continued on next page)

Model Index

Model	Engine Description	Line No.
4440 ... Wheel Tractor	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
4440 ... Wheel Tractor	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
4440 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
4450 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
4455 ... Wheel Tractor	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
448D ... Wheel Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
448D ... Skidder	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
45 ... Wheel Tractor	2.4L 145 OHV L4 3.625" Bore	13
45 ... Combine	2.5L 155 OHV Diesel L4 3.75" Bore	20
45 ... Combine	2.7L 165 OHV Diesel L4 3.875" Bore	25
45 ... Combine	2.9L 180 OHV L4 3.8594" Bore	31
450 ... Crawler Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38
450B ... Crawler Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
450B ... Crawler Tractor	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore	42
450BT ... Wheel Tractor	5.4L 329 OHV Diesel L6 4.0156" Bore	78
450C ... Wheel Tractor	2.9L 180 OHV L4 3.8594" Bore	31
450C ... Wheel Tractor	3.3L 202 OHV L4 3.8594" Bore	37
450C ... Wheel Tractor	3.3L 202 OHV Diesel L4 3.8594" Bore	38
450C ... Wheel Tractor	3.6L 219 OHV L4 4.0156" Bore	40
450C ... Wheel Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
450C ... Crawler Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
450C ... Crawler Tractor	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore	42
450D ... Wheel Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
450D ... Crawler Tractor	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore	42
450E ... Wheel Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
450E ... Crawler Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
450E ... Crawler Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
450ELT ... Crawler Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
450ELT ... Crawler Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
450G ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
450G ... Crawler Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
450G ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (Litre Engine)	63
450G ... Crawler Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
450G ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
450G ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
450H ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
450H ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
450J ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
450J ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
4520 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
4520 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
4520 ... Wheel Tractor	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
4520 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
455D ... Crawler Tractor	3.6L 219 OHV Turbo-Diesel L4 4.0156" Bore	42
455E ... Wheel Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
455E ... Crawler Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
455E ... Crawler Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
455G ... Crawler Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
455G ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (Litre Engine)	63
455G ... Crawler Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
455G ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
4555 ... Wheel Tractor	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
4560 ... Wheel Tractor	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
460DC ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
460DC ... Logger	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
460DC ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
460DG ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
460DG ... Logger	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
460DG ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
4620 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
4620 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
4620 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (5 Main)	97
4620 ... Wheel Tractor	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
4620 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
4630 ... Wheel Tractor	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
4630 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
4640 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114

(continued on next page)

Model Index

Model	Engine Description	Line No.
4650 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
4700 ... Sprayer	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
4700 ... Sprayer	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
4710 ... Sprayer	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
4710 ... Sprayer	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
4720 ... Sprayer	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
4755 ... Wheel Tractor	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
4760 ... Wheel Tractor	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
480 ... Forklift	3.3L 202 OHV Diesel L4 3.8594" Bore	38
480A ... Forklift	3.3L 202 OHV Diesel L4 3.8594" Bore	38
480B ... Forklift	3.6L 219 OHV Diesel L4 4.0156" Bore	41
480C ... Forklift	3.6L 219 OHV Diesel L4 4.0156" Bore	41
482 ... Cotton Picker	5.4L 329 OHV L6 4.0156" Bore	77
482 ... Combine	5.4L 329 OHV Diesel L6 4.0156" Bore	78
482 ... Cotton Picker	5.4L 329 OHV Diesel L6 4.0156" Bore	78
482 ... Cotton Picker	5.4L 329 OHV LPG L6 4.0156" Bore	79
482C ... Forklift	3.6L 219 OHV Diesel L4 4.0156" Bore	41
482C ... Forklift	3.9L 239 (3917cc) OHV Diesel L4 106mm Bore (Litre Engine)	52
4840 ... Wheel Tractor	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
4840 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
485E ... Forklift	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
485E ... Forklift	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
4850 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
486E ... Forklift	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
486E ... Forklift	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
488E ... Forklift	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
488E ... Forklift	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
4890 ... Windrower	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
4895 ... Windrower	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
490 ... Wheel Tractor	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
490 ... Excavator	3.9L 239 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	51
490E ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
493D ... Feller Buncher	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
495D ... Excavator	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
495D ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
4955 ... Wheel Tractor	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
499 ... Cotton Picker	3.6L 219 OHV L4 4.0156" Bore	40
499 ... Cotton Picker	3.6L 219 OHV Diesel L4 4.0156" Bore	41
499 ... Cotton Picker	5.4L 329 OHV L6 4.0156" Bore	77
499 ... Combine	5.4L 329 OHV Diesel L6 4.0156" Bore	78
499 ... Cotton Picker	5.4L 329 OHV LPG L6 4.0156" Bore	79
4990 ... Windrower	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
4990 ... Windrower	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
4995 ... Windrower	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
4995 ... Windrower	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
50 ... Wheel Tractor	3.1L 190 OHV L2 4.6875" Bore	34
50 ... Wheel Tractor	3.1L 190 OHV Distillate L2 4.6875" Bore	35
500C ... Loader	3.3L 201 OHV L4 4" Bore	36
500C ... Loader	3.9L 241 OHV L4 4.25" Bore	54
500C ... Loader	3.9L 241 OHV LPG L4 4.25" Bore	55
500C ... Loader	4.2L 254 OHV Diesel L4 4.125" Bore	59
500C ... Loader	4.4L 270 OHV Diesel L4 4.25" Bore	60
5010 ... Wheel Tractor	8.7L 531 OHV Diesel L6 4.75" Bore	122
5010 ... Wheel Tractor	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
5020 ... Wheel Tractor	8.7L 531 OHV Diesel L6 4.75" Bore	122
5020 ... Wheel Tractor	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
510 ... Loader	3.3L 201 OHV L4 4" Bore	36
510 ... Loader	3.9L 241 OHV L4 4.25" Bore	54
510 ... Loader	3.9L 241 OHV LPG L4 4.25" Bore	55
510 ... Loader	4.2L 254 OHV Diesel L4 4.125" Bore	59
510 ... Loader	4.4L 270 OHV Diesel L4 4.25" Bore	60
510B ... Wheel Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
510B ... Backhoe	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
510B ... Backhoe	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
510C ... Backhoe	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
510D ... Backhoe	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
510D ... Backhoe	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65

(continued on next page)

Model Index

Model	Engine Description	Line No.
5105 ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
520 ... Wheel Tractor	3.1L 190 OHV L2 4.6875" Bore	34
520 ... Wheel Tractor	3.1L 190 OHV Distillate L2 4.6875" Bore	35
5200 ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
5200 ... Harvester	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
5200 ... Harvester	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
5200 ... Harvester	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
5205 ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
5210 ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
5215 ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
5215F ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
5215V ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
5220 ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
530 ... Wheel Tractor	3.1L 190 OHV L2 4.6875" Bore	34
530 ... Wheel Tractor	3.1L 190 OHV Distillate L2 4.6875" Bore	35
530B ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
530B ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
530B ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
5300 ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
5300N ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
5310 ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
5310 ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
5310N ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	29
5310N ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
5315 ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
5315F ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
5315V ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
5320 ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
5320N ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
535 ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
535 ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
535 ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
540 To Ser. No. 119500 ... Skidder	5.0L 303 OHV Diesel L6 3.8594" Bore	73
540A From Ser. No. 119501 ... Skidder	5.4L 329 OHV Diesel L6 4.0156" Bore	78
540A From Ser. No. 119501 ... Skidder	5.4L 329 OHV Turbo-Diesel L6 4.0156" Bore	80
540B ... Skidder	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
540D ... Skidder	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
540E ... Skidder	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
540E ... Skidder	5.9L 358.4 (5876cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	84
540G ... Skidder	5.9L 358.4 (5876cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	84
540G ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
540G ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
540G-II ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
540G-II ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
540G-III ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
540G-III ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
5400 ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
5400 ... Harvester	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
5400 ... Harvester	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
5400N ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
5410 ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
5410 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
5410N ... Wheel Tractor	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
5415 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
5415 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
5415N ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64

(continued on next page)

Model Index

Model	Engine Description	Line No.
5415N ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
5420 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
5420 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
5420N ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
5425 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
5425N ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
544 ... Loader	5.0L 303 OHV Diesel L6 3.8594" Bore	73
544 ... Loader	5.4L 329 OHV Diesel L6 4.0156" Bore	78
544 ... Loader	5.4L 329 OHV Turbo-Diesel L6 4.0156" Bore	80
544B ... Loader	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
544C ... Loader	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
544C ... Loader	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
544D ... Loader	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
544DH ... Loader	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
544E ... Loader	5.9L 359 OHV Turbo-Diesel L6 4.1875" Bore	86
544G ... Loader	5.9L 358.4 (5876cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	84
544H ... Loader Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
544H ... Loader Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
544HLL ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
544HLL ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
544J ... Loader Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
544J ... Loader Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
5440 ... Harvester	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
5440 ... Harvester	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
5440 ... Wheel Tractor	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
5460 ... Harvester	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
5460 ... Wheel Tractor	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
5460 ... Forage Harvester	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
548D ... Skidder	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
548E ... Skidder	5.9L 358.4 (5876cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	84
548G ... Skidder	5.9L 358.4 (5876cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	84
548G ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
548G ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
548G-II ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
548G-II ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
548G-III ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
548G-III ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
55 ... Combine	3.6L 217 OHV L6 3.625" Bore	39
55 ... Combine	3.8L 230 L-HEAD L6 3.4375" Bore (Hercules Eng.)	48
55 ... Combine	5.0L 303 OHV L6 3.8594" Bore	72
55 ... Combine	5.0L 303 OHV Diesel L6 3.8594" Bore	73
55 ... Combine	5.0L 303 OHV LPG L6 3.8594" Bore	74
55R ... Combine	3.6L 217 OHV L6 3.625" Bore	39
55R ... Combine	3.8L 230 L-HEAD L6 3.4375" Bore (Hercules Eng.)	48
550 ... Crawler Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
550A ... Crawler Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
550B ... Wheel Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
550B ... Crawler Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
550G ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
550G ... Crawler Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
550G ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
550G ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
550H ... Wheel Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
550H ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
550J ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
5510 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
5510N ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
5515 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
5520 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66

(continued on next page)

Model Index

Model	Engine Description	Line No.
5520N ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
5525 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
5525N ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
555 ... Crawler Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
555A ... Crawler Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
555B ... Wheel Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
555B ... Crawler Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
555G ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
555G ... Crawler Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
555G ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
555G ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
560D ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
560D ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
560D ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
5615 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
5620 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	64
5620 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
570 ... Grader	5.0L 303 OHV Diesel L6 3.8594" Bore	73
570 ... Grader	5.4L 329 OHV Diesel L6 4.0156" Bore	78
570 ... Grader	5.4L 329 OHV Turbo-Diesel L6 4.0156" Bore	80
570A ... Grader	5.0L 303 OHV Diesel L6 3.8594" Bore	73
570A ... Grader	5.4L 329 OHV Diesel L6 4.0156" Bore	78
570A ... Grader	5.4L 329 OHV Turbo-Diesel L6 4.0156" Bore	80
570B ... Grader	5.9L 358.4 (5876cc) OHV Diesel L6 106mm Bore (Litre Engine)	83
570B ... Grader	5.9L 358.4 (5876cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	84
570B ... Grader	5.9L 359 OHV Diesel L6 4.1875" Bore	85
570B ... Grader	5.9L 359 OHV Turbo-Diesel L6 4.1875" Bore	86
5715 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
5720 ... Combine	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
5720 ... Harvester	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
5720 ... Forage Harvester	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
5730 ... Harvester	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
5820 ... Harvester	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
5820 ... Wheel Tractor	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
5820 ... Forage Harvester	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
5830 ... Forage Harvester	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
590D ... Excavator	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
590D ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
595 ... Excavator	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
595 ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
595D ... Excavator	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
595D ... Excavator	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
60 ... Wheel Tractor	5.3L 321 OHV L2 5.5" Bore	76
600 ... Wheel Tractor	1.9L 115 OHV L4 3.5" Bore	8
600 ... Wheel Tractor	2.2L 135 OHV L3 3.8594" Bore	10
600 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
600 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
600 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (5 Main)	97
600A ... Wheel Tractor	2.2L 135 OHV L3 3.8594" Bore	10
6000 ... Sprayer	3.6L 219 OHV Diesel L4 4.0156" Bore	41
6000 ... Sprayer	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
6030 ... Wheel Tractor	8.7L 531 OHV Diesel L6 4.75" Bore	122
6030 ... Wheel Tractor	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
6030 ... Wheel Tractor	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
6068DF150 ... Power Unit	6.8L 413.8 (6784cc) OHV Diesel L6 106mm Bore (PowerTech 2V)	104
6068FN ... Power Unit	6.8L 413.8 (6784cc) OHV NG L6 106mm Bore (PowerTech 2V)	105
6068HF ... Power Unit	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
6068HFN50 ... Power Unit	6.8L 413.8 (6784cc) OHV Turbo-NG L6 106mm Bore (PowerTech 2V IC)	101
6068HFN51 ... Power Unit	6.8L 413.8 (6784cc) OHV Turbo-NG L6 106mm Bore (PowerTech 2V IC)	101
6068HF475 ... Power Unit	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
6068HF485 ... Power Unit	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
6068HL480 ... Power Unit	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
6068TF ... Power Unit	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108

(continued on next page)

Model Index

Model	Engine Description	Line No.
6068TFN ... Power Unit	6.8L 413.8 (6784cc) OHV Turbo-NG L6 106mm Bore (PowerTech 2V)	107
6068TF120 ... Power Unit	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
6068TF150 ... Power Unit	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
6068TF151 ... Power Unit	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
6068TF158 ... Power Unit	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
6068TF275 ... Power Unit	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
608B ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
608B ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
608B ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
608L ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
608L ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
608L ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
608S ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
608S ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
608S ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
6081AF ... Power Unit	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
6081HF ... Power Unit	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6081HFN ... Power Unit	8.1L 495.9 (8129cc) OHV Turbo-NG L6 116mm Bore (PowerTech 2V IC)	117
6081HF70 ... Power Unit	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6081TF ... Power Unit	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
6081TFN ... Power Unit	8.1L 495.9 (8129cc) OHV Turbo-NG L6 116mm Bore (PowerTech 2V)	120
610B ... Backhoe	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
610C ... Backhoe	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
6110 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6110 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6110L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6110L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6120 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6120 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6120L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6120L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6210 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6210 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6210L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6210L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6215 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6215 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6220 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6220 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6220L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6220L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6230 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 4V IC)	62
624E ... Loader	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
624E ... Loader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
624G ... Loader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
624H ... Loader Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
624H ... Loader Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
624HLL ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
624HLL ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108

(continued on next page)

Model Index

Model	Engine Description	Line No.
624J ... Loader Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
6250 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Diesel L6 106mm Bore (PowerTech 2V)	104
6303D ... Power Unit	5.0L 303 OHV Diesel L6 3.8594" Bore	73
6303G ... Power Unit	5.0L 303 OHV L6 3.8594" Bore	72
6303G ... Power Unit	5.0L 303 OHV LPG L6 3.8594" Bore	74
6310 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6310 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6310L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6310L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6310S ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6310S ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6320 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6320 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 4V IC)	62
6320 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6320L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6320L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6329D ... Power Unit	5.4L 329 OHV Diesel L6 4.0156" Bore	78
6329G ... Power Unit	5.4L 329 OHV L6 4.0156" Bore	77
6329G ... Power Unit	5.4L 329 OHV LPG L6 4.0156" Bore	79
6330 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 4V IC)	62
6341G ... Power Unit	5.6L 340 OHV L6 4.25" Bore	81
6362G ... Power Unit	5.9L 362 OHV L6 4.25" Bore	87
6381D ... Power Unit	6.2L 381 OHV Diesel L6 4.125" Bore	94
640 ... Skidder	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
640D ... Skidder	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
640E ... Skidder	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
640G ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
640G ... Skidder	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
640G ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
640G-II ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
640G-II ... Logger	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
640G-II ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
640G-III ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
640G-III ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
6403 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6403 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6404D ... Power Unit	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
6404D ... Power Unit	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
6405 ... Wheel Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
6405 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6405 ... Wheel Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
6405 ... Wheel Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
6405 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6410 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6410 ... Wheel Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
6410 ... Wheel Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
6410 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6410L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6410L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6410S ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6410S ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6415 ... Wheel Tractor	3.6L 219 OHV Diesel L4 4.0156" Bore	41
6415 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6415 ... Wheel Tractor	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	67
6415 ... Wheel Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
6415 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66

(continued on next page)

Model Index

Model	Engine Description	Line No.
6420 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6420 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 4V IC)	62
6420 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6420L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6420L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6420S ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6420S ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 4V IC)	62
6420S ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
643 ... Feller Buncher	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
643 ... Feller Buncher	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
643D ... Feller Buncher	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
643D ... Feller Buncher	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
643G ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
643G ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
643H ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
643H ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
643J ... Feller Buncher	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
6430 ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 4V IC)	62
644 ... Loader	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
644A ... Loader	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
644B ... Loader	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
644C ... Loader	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
644D ... Loader	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
644E ... Loader	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
644G ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
644G ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
644G ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
644H ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
644H ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
644H ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
644J ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
644J ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
644J ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
646 ... Compactor	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
646A ... Compactor	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
646B ... Compactor	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
646C ... Compactor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
648D ... Skidder	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
648E ... Skidder	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
648G ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
648G ... Skidder	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
648G ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
648G-II ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
648G-II ... Logger	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
648G-II ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
648G-III ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
648G-III ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
65 ... Combine	3.6L 217 OHV L6 3.625" Bore	39
65 ... Combine	3.8L 230 L-HEAD L6 3.4375" Bore (Hercules Eng.)	48
650G ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
650G ... Crawler Tractor	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	68
650G ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	65
650G ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66

(continued on next page)

Model Index

Model	Engine Description	Line No.
650H ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
650J ... Crawler Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6500 ... Sprayer	3.9L 239 (3917cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	53
6505 ... Crawler Tractor	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
6505 ... Loader Tractor	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
6510L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6510L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6510S ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6510S ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6520 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
6520 ... Crawler Tractor	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
6520 ... Loader Tractor	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
6520L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
6520L ... Wheel Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
653E ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
653E ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
653G ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
653G ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
6530 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
6540 ... Wheel Tractor	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
6545 ... Wheel Tractor	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
655 ... Crawler Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
655B ... Crawler Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
655B ... Loader Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
655B ... Crawler Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
66-10 Cut ... Combine	2.2L 133 L-HEAD L4 3.25" Bore (Hercules Eng.)	9
660D ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
660D ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
660D ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
6600 ... Combine	2.7L 164 OHV Diesel L3 4.0156" Bore	23
6600 ... Combine	3.6L 219 OHV L4 4.0156" Bore	40
6600 ... Combine	5.0L 303 OHV L6 3.8594" Bore	72
6600 ... Wheel Tractor	5.0L 303 OHV L6 3.8594" Bore	72
6600 ... Combine	5.0L 303 OHV Diesel L6 3.8594" Bore	73
6600 ... Combine	5.0L 303 OHV LPG L6 3.8594" Bore	74
6600 ... Wheel Tractor	5.0L 303 OHV LPG L6 3.8594" Bore	74
6600 ... Combine	5.4L 329 OHV L6 4.0156" Bore	77
6600 ... Combine	5.4L 329 OHV Diesel L6 4.0156" Bore	78
6600 ... Combine	5.4L 329 OHV LPG L6 4.0156" Bore	79
6600 ... Combine	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
6602 ... Combine	5.9L 362 OHV L6 4.25" Bore	87
6602 ... Wheel Tractor	5.9L 362 OHV L6 4.25" Bore	87
6602 ... Wheel Tractor	5.9L 362 OHV LPG L6 4.25" Bore	88
6602 ... Wheel Tractor	5.9L 362 OHV NG L6 4.25" Bore	89
6602 ... Combine	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
6602 ... Combine	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
6602 ... Combine	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
6602 ... Combine	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6603 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
6605 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
6605 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
6610 ... Forage Harvester	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6610 ... Forage Harvester	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
6615 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
6615 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
6620 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
6620 ... Combine	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
6620 ... Combine	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6620 ... Harvester	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6622 ... Combine	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
6622 ... Combine	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
6622 ... Harvester	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114

(continued on next page)

Model Index

Model	Engine Description	Line No.
6630 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
6650 ... Forage Harvester	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
6650 ... Forage Harvester	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
67R ... Combine	3.6L 217 OHV L6 3.625" Bore	39
670 ... Grader	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
670A ... Grader	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
670B ... Grader	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
670C ... Grader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
670C ... Grader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
670C-II ... Grader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
670C-II ... Grader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
670CH ... Grader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
670CH ... Grader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
670CH-II ... Grader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
670CH-II ... Grader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
670CH-II ... Grader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
670D ... Grader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
6700 ... Sprayer	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
6715 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
6715 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
672A ... Grader	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
672B ... Grader	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
672CH ... Grader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
672CH ... Grader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
672CH-II ... Grader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
672CH-II ... Grader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
672CH-II ... Grader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
672D ... Grader	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
6820 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
6830 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
690 ... Excavator	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
690A ... Excavator	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
690B ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
690B ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
690B ... Excavator	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
690C ... Excavator	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
690D ... Excavator	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
690D ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
690E ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
690ELC ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
690ELC ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
6920 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
6920S ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
693B ... Feller Buncher	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
693C ... Feller Buncher	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
693D ... Feller Buncher	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
693D ... Feller Buncher	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
6930 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
6950 ... Harvester	14.0L 855 OHV Turbo-Diesel L6 5.5" Bore (Cummins Eng.)	130
6950 ... Forage Harvester	14.0L 855 OHV Turbo-Diesel L6 5.5" Bore (Cummins Eng.)	130
699 ... Combine	5.0L 303 OHV L6 3.8594" Bore	72
699 ... Cotton Picker	5.0L 303 OHV L6 3.8594" Bore	72
699 ... Combine	5.0L 303 OHV Diesel L6 3.8594" Bore	73
699 ... Cotton Picker	5.0L 303 OHV Diesel L6 3.8594" Bore	73
699 ... Combine	5.0L 303 OHV LPG L6 3.8594" Bore	74
699 ... Cotton Picker	5.0L 303 OHV LPG L6 3.8594" Bore	74
699 ... Cotton Picker	5.4L 329 OHV L6 4.0156" Bore	77
699 ... Combine	5.4L 329 OHV Diesel L6 4.0156" Bore	78

(continued on next page)

Model Index

Model	Engine Description	Line No.
699 ... Cotton Picker	5.4L 329 OHV Diesel L6 4.0156" Bore	78
699 ... Cotton Picker	5.4L 329 OHV LPG L6 4.0156" Bore	79
70 ... Excavator	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
70D ... Excavator	3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	50
700 ... Wheel Tractor	1.9L 115 OHV L4 3.5" Bore	8
700 ... Wheel Tractor	2.2L 135 OHV L3 3.8594" Bore	10
700H ... Crawler Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
700J ... Crawler Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
700J ... Crawler Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
7020 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
7020 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
7020 ... Wheel Tractor	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
703G ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
703G ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
703G ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
710B ... Wheel Tractor	5.4L 329 OHV Diesel L6 4.0156" Bore	78
710B ... Backhoe	5.4L 329 OHV Turbo-Diesel L6 4.0156" Bore	80
710B ... Backhoe	5.9L 359 OHV Turbo-Diesel L6 4.1875" Bore	86
710C ... Backhoe	5.9L 359 OHV Turbo-Diesel L6 4.1875" Bore	86
710D ... Backhoe	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
710D ... Backhoe	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
710G ... Backhoe	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
710G ... Backhoe	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
72-74 ... Harvester	2.5L 154 L-HEAD V4 3.5" Bore (Wisconsin Eng.)	19
7200 ... Forage Harvester	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
7200 ... Forage Harvester	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
7210 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
7210 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
7220 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
7220 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
7220 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
724J ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
724J ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
724J ... Loader Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
7320 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
7320 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
7320 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
734 ... Wheel Tractor	2.2L 135 OHV L3 3.8594" Bore	10
740 ... Skidder	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
740 ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
740 ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
740A ... Skidder	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
740E ... Skidder	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
740G ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
740G ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
740G ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
740G-II ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
7405 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
7405 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
7410 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
7410 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
7420 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
7420 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
7420 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
743 ... Feller Buncher	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114

(continued on next page)

Model Index

Model	Engine Description	Line No.
743A ... Feller Buncher	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
7440 ... Cotton Picker	5.9L 359 OHV Diesel L6 4.1875" Bore	85
7445 ... Cotton Picker	5.9L 359 OHV Turbo-Diesel L6 4.1875" Bore	86
7455 ... Cotton Picker	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
7460 ... Cotton Picker	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
748E ... Skidder	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	116
748G ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
748G ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
748G ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
748G-II ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
748G-II ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
748G-II ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
748G-III ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
748G-III ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
750 ... Crawler Tractor	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
750 ... Crawler Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
750B ... Crawler Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
750B ... Crawler Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
750BLT ... Crawler Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
750BLT ... Crawler Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
750C ... Crawler Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
750C ... Crawler Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
750C-II ... Crawler Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
750C-II ... Crawler Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
750J ... Crawler Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
750J ... Crawler Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
7500 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
7500 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
7510 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
7510 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
7520 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
7520 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
7520 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
7520 ... Wheel Tractor	8.7L 531 OHV Diesel L6 4.75" Bore	122
7520 ... Wheel Tractor	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
753G ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
753G ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
753G ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
753GL ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
753GL ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
753GL ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
755 ... Crawler Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
755A ... Crawler Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
755B ... Crawler Tractor	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	109
755B ... Crawler Tractor	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	110
755B ... Crawler Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
759G ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
759G ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
759G ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
7610 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
7610 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
762 ... Scraper	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
762A ... Scraper	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114

(continued on next page)

Model Index

Model	Engine Description	Line No.
762B ... Scraper	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
762B-II ... Scraper	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
762B-II ... Scraper	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
762B-II ... Scraper	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
7630 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
770 ... Grader	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
770A ... Grader	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
770A ... Grader	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
770AH ... Grader	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
770B ... Grader	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
770BH ... Grader	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
770C ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
770C ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
770C ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
770C-II ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
770C-II ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
770C-II ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
770CH ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
770CH ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
770CH ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
770CH-II ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
770CH-II ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
770CH-II ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
770D ... Forestry Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
770D ... Forestry Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
770D ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
770D ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
770D ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
7700 ... Combine	5.9L 362 OHV L6 4.25" Bore	87
7700 ... Wheel Tractor	5.9L 362 OHV L6 4.25" Bore	87
7700 ... Wheel Tractor	5.9L 362 OHV LPG L6 4.25" Bore	88
7700 ... Wheel Tractor	5.9L 362 OHV NG L6 4.25" Bore	89
7700 ... Combine	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
7700 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Early)	95
7700 ... Combine	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
7700 ... Wheel Tractor	6.6L 404 OHV Diesel L6 4.25" Bore (Late)	96
7700 ... Combine	6.6L 404 OHV Turbo-Diesel L6 4.25" Bore (Aftercooled)	98
7710 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
7710 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
7710 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
772A ... Grader	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
772A ... Grader	8.7L 531 OHV Turbo-Diesel L6 4.75" Bore	123
772AH ... Grader	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
772B ... Grader	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
772BH ... Grader	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
772CH ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
772CH ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
772CH ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
772CH-II ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
772CH-II ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
772CH-II ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
772D ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
772D ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
772D ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
7720 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
7720 ... Combine	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113

(continued on next page)

Model Index

Model	Engine Description	Line No.
7720 ... Combine	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
7720 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
7730 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
7810 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
7810 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
7810 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
7815 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
7815 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
7820 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
7820 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
7820 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
7820 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
7830 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
790 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
790 ... Excavator	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
790D ... Excavator	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
790E ... Excavator	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	106
792 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
792 ... Excavator	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
7920 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
7920 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
7920 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
793D ... Feller Buncher	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
7930 ... Wheel Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
800 ... Windrower	3.7L 225 OHV L6 3.4063" Bore (Chrysler Eng.)	44
8010 ... Wheel Tractor	4.7L 284 OHV Diesel L4 4.25" Bore (4-71) (Detroit Diesel Eng.)	70
8010 ... Wheel Tractor	7.0L 426 OHV Diesel L6 4.25" Bore (6-71) (Detroit Diesel Eng.)	112
8020 ... Wheel Tractor	4.7L 284 OHV Diesel L4 4.25" Bore (4-71) (Detroit Diesel Eng.)	70
8020 ... Wheel Tractor	7.0L 426 OHV Diesel L6 4.25" Bore (6-71) (Detroit Diesel Eng.)	112
810D ... Forestry Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	61
810D ... Forestry Tractor	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	66
8100 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8100 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8100 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
8100T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8100T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8100T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
8110 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8110 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8110 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
8110T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8110T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8110T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
8120 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8120 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8120 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
8120T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8120T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8120T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
820 ... Wheel Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
8200 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8200 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8200 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121

(continued on next page)

Model Index

Model	Engine Description	Line No.
8200T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8200T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8200T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
8210 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8210 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8210 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
8210T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8210T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8210T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
8220 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8220 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8220 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
8220T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8220T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8220T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
830 ... Wheel Tractor	2.5L 152 OHV Diesel L3 3.8594" Bore	18
830 ... Windrower	3.7L 225 OHV L6 3.4063" Bore (Chrysler Eng.)	44
8300 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8300 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8300 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
8300T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8300T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8300T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
8310 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8310 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8310 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
8310T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8310T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8310T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
8320 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8320 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8320 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
8320T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8320T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8320T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
840 ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
840 ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
8400 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8400 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8400 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
8400T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8400T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8400T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
8410 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8410 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8410T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8410T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
8420 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8420 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119

(continued on next page)

Model Index

Model	Engine Description	Line No.
8420T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
8420T ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
843G ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
843G ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
843H ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
843H ... Forestry Tractor	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
843J ... Feller Buncher	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
8430 ... Wheel Tractor	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
8430 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
8440 ... Wheel Tractor	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
8440 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
8450 ... Wheel Tractor	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
8450 ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
848G ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
848G ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
848G ... Skidder	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
850 ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
850 ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
850 ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
850 ... Wheel Tractor	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
850 ... Crawler Tractor	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
850B ... Crawler Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
850C ... Crawler Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
850C ... Crawler Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
850C ... Crawler Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
850C-II ... Crawler Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
850C-II ... Crawler Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
850C-II ... Crawler Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
850J ... Crawler Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
850J ... Crawler Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
850J ... Crawler Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
853G ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
853G ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
853G ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
853J ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
853J ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
860B ... Scraper	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
862 To Eng. Ser. No. 499999 ... Scraper	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
862B ... Scraper	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
8630 ... Wheel Tractor	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
8650 ... Wheel Tractor	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
870D ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
870D ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
870D ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
872D ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
872D ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
872D ... Grader	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
880 ... Windrower	2.9L 180 OHV L4 3.8594" Bore	31
880 ... Windrower	3.3L 202 OHV Diesel L4 3.8594" Bore	38
8820 ... Combine	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113
8820 ... Combine	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
8820 ... Harvester	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
8875 ... Track Loader	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	30
890 ... Excavator	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
890A ... Wheel Tractor	7.6L 466 OHV Diesel L6 4.5625" Bore (Standard)	113

(continued on next page)

Model Index

Model	Engine Description	Line No.
890A ... Wheel Tractor	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
890A ... Excavator	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
892D LC ... Excavator	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
90 ... Combine	3.6L 217 OHV L6 3.625" Bore	39
900 ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
900 ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
900 ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
903G ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
903G ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
903G ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
903J ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
903J ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9100 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9100 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9100 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
9120 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9120 ... Wheel Tractor	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9400 ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
9400 ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
9410 ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
9410 ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
9450 ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
9450 ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
95 ... Combine	3.6L 217 OHV L6 3.625" Bore	39
95 ... Combine	5.0L 303 OHV L6 3.8594" Bore	72
95 ... Combine	5.0L 303 OHV Diesel L6 3.8594" Bore	73
95 ... Combine	5.0L 303 OHV LPG L6 3.8594" Bore	74
95H ... Combine	3.6L 217 OHV L6 3.625" Bore	39
95H ... Combine	5.0L 303 OHV L6 3.8594" Bore	72
95H ... Power Unit	5.0L 303 OHV L6 3.8594" Bore	72
95H ... Combine	5.0L 303 OHV Diesel L6 3.8594" Bore	73
95H ... Power Unit	5.0L 303 OHV Diesel L6 3.8594" Bore	73
95H ... Combine	5.0L 303 OHV LPG L6 3.8594" Bore	74
95H ... Power Unit	5.0L 303 OHV LPG L6 3.8594" Bore	74
95LL ... Combine	5.0L 303 OHV L6 3.8594" Bore	72
95LL ... Power Unit	5.0L 303 OHV L6 3.8594" Bore	72
95LL ... Combine	5.0L 303 OHV Diesel L6 3.8594" Bore	73
95LL ... Power Unit	5.0L 303 OHV Diesel L6 3.8594" Bore	73
95LL ... Combine	5.0L 303 OHV LPG L6 3.8594" Bore	74
95LL ... Power Unit	5.0L 303 OHV LPG L6 3.8594" Bore	74
95R ... Combine	3.6L 217 OHV L6 3.625" Bore	39
950 ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
950 ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
950 ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
9510 ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9510 ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9510 ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
953G ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
953G ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
953G ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
953J ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
953J ... Feller Buncher	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9540WTS ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	102
9540WTS ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
9550 ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
9550 ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9550 ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9550 ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
9550H ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118

(continued on next page)

Model Index

Model	Engine Description	Line No.
9550SH ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
9550SH ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9550SH ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
9560 ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
9560SH ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
9560STS ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
9560STS ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9560STS ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9560WTS ... Combine	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
9610 ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9610 ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9640 ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9650 ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9650 ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9650CTS ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9650CTS ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9650STS ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9650STS ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9660 ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9660 ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9660CTS ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9660CTS ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9660STS ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9660STS ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9680 ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9750CTS-II ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9750CTS-II ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9750STS ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9750STS ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9760STS ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9760STS ... Combine	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9900 ... Cotton Picker	5.0L 303 OHV L6 3.8594" Bore	72
9900 ... Cotton Picker	5.0L 303 OHV LPG L6 3.8594" Bore	74
9900 ... Cotton Picker	5.4L 329 OHV Diesel L6 4.0156" Bore	78
9910 ... Cotton Picker	5.0L 303 OHV L6 3.8594" Bore	72
9910 ... Cotton Picker	5.0L 303 OHV LPG L6 3.8594" Bore	74
9910 ... Cotton Picker	5.9L 359 OHV Diesel L6 4.1875" Bore	85
992D LC ... Excavator	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	127
9920 ... Cotton Picker	5.9L 359 OHV Diesel L6 4.1875" Bore	85
9930 ... Cotton Picker	5.9L 359 OHV Turbo-Diesel L6 4.1875" Bore	86
9935 ... Cotton Picker	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	108
9940 ... Cotton Picker	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
9950 ... Cotton Picker	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	114
9970 ... Cotton Picker	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	103
9970 ... Cotton Picker	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9970 ... Cotton Picker	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9970 ... Cotton Picker	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	121
9976 ... Cotton Picker	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9976 ... Cotton Picker	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119
9986 ... Cotton Picker	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	118
9986 ... Cotton Picker	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	119

1 *Power Unit* NXA Eng.
.9L 57 L-HEAD L2, 3" Bore (Hercules Eng.)

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
2	Intake	FP-V429		1.4840" Head Dia., .3100" Stem Dia., 3.9260" O.A.L.
2	Exhaust	FP-V428		1.3583" Head Dia., .3100" Stem Dia., 3.9213" O.A.L.

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
4	Guide	FP-VG930		.485" OD; 3/8" Counterbore; .3120" ID, 2.0940" O.A.L.
4	Guide	FP-VG456		.532" OD; .3120" ID, 2.0940" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
4	Spring	FP-VS622		1.7650" Free Height

CYLINDER COMPONENTS

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	FP-1450SB	*STD*	
2	Rod Pair	FP-1450SB10	*10*	
2	Rod Pair	FP-1450SB20	*20*	
2	Rod Pair	FP-1450SB30	*30*	

2 *Power Unit* NXB Eng.
1.1L 66 L-HEAD L2, 3.25" Bore (Hercules Eng.)

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
2	Intake	FP-V429		1.4840" Head Dia., .3100" Stem Dia., 3.9260" O.A.L.
2	Exhaust	FP-V428		1.3583" Head Dia., .3100" Stem Dia., 3.9213" O.A.L.

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
4	Guide	FP-VG930		.485" OD; 3/8" Counterbore; .3120" ID, 2.0940" O.A.L.
4	Guide	FP-VG456		.532" OD; .3120" ID, 2.0940" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
4	Spring	FP-VS622		1.7650" Free Height

CYLINDER COMPONENTS

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	FP-1450SB	*STD*	
2	Rod Pair	FP-1450SB10	*10*	
2	Rod Pair	FP-1450SB20	*20*	
2	Rod Pair	FP-1450SB30	*30*	

3 *Wheel Tractor* M Eng.
1.6L 100 OHV L2, 4" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Set	FP-PG100HS		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
8	Keeper	FP-B367R		2 groove
8	Keeper	VK-66R		2 groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
2	Int.	FP-24518125		1.8175" OD, 1.5000" ID, .2480" Depth

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
4	Guide	FP-VG570		.3750" ID, 3.3400" O.A.L.

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PG100FS		

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-1475M	*STD*	Late Engs.

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-4003M	*STD*	
1	Main Set	FP-4003M10	*10*	
1	Main Set	FP-4003M20	*20*	
1	Main Set	FP-4003M30	*30*	

(continued on next page)

Wheel Tractor **M Eng.** **3**
1.6L 100 OHV L2, 4" Bore **(cont.)**

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
1	Repair Sleeve	**SL-22Y** Std Only		1/8" wall, must be cut to correct length; O.A.L. 10.250"
1	Repair Sleeve	**SL-22M** Std Only		3/32" wall, must be cut to correct length; O.A.L. 10.250"

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
2	Piston Kit w/Pin & Retainers	**FP-A1276P**	*STD*	Models M, 320
2	Piston Kit w/Pin & Retainers	**FP-A1276P45**	*45*	Models M, 320
2	Piston Kit w/Pin & Retainers	**FP-A1276P90**	*90*	Models M, 320
2	Piston Kit w/Pin & Retainers	**FP-A1276P125**	*125*	Models M, 320
2	Pin Bushing	**FP-2204Y**		Late Engs.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	**FP-2205CP**	*STD*	Early Engs.
2	Rod Pair	**FP-2205CP10**	*10*	Early Engs.
2	Rod Pair	**FP-2205CP20**	*20*	Early Engs.
2	Rod Pair	**FP-2205CP30**	*30*	Early Engs.
2	Rod Pair	**FP-2210SB**	*STD*	Late Engs.
2	Rod Pair	**FP-2210SB10**	*10*	Late Engs.
2	Rod Pair	**FP-2210SB20**	*20*	Late Engs.
2	Rod Pair	**FP-2210SB30**	*30*	Late Engs.
2	Rod Pair	**FP-2210SB40**	*40*	Late Engs.

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	**FP-5362KX**	*STD*	Model 40; 3-3/32, 1-1/4
1	Premium Set	**FP-5362KX40**	*40*	Model 40; 3-3/32, 1-1/4
1	Standard Set	**FP-5079X**	*STD*	Models M, MT; 2-5/32, 1-1/8, 1-1/4

Wheel Tractor **2-53 (2-Valve Cyl. Head), 2-53N (4-Valve Cyl. Head) Engs.** **4**
1.7L 106 OHV Diesel L2, 3.875" Bore (Detroit Diesel Eng.)

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
2	Head Gasket	**FP-5121254**		
1	Head Set	**FP-5199809**		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Exhaust	**FP-5116137**		2-53 Engs.
8	Exhaust	**FP-5145172**		2-53N Engs.
8	Exhaust	**FP-5109925**		2-53N Engs.; Optional-H/D
4	Exhaust Valve Kit	**FP-5195948**		2-53 Engs.; 30 Deg.
8	Keeper	**FP-5111337**		2-53 Engs.; 1 groove; Square cut key groove
8	Keeper	**VK-144**		2-53 Engs.; 1 groove; Square cut key groove
8	Keeper	**VK-144R**		2-53 Engs.; 1 groove; Square cut key groove; Hardened
16	Keeper	**FP-5116341**		2-53N Engs.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	**FP-5116196**	*STD*	2-53 Engs.
8	Exh.	**FP-8921501**	*STD*	2-53N Engs.; 30 Deg. seat; 1.1610" OD, .0910" ID, .2220" Depth

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
4	Guide	**FP-5129919**		2-53 Engs.; Cut for seal; 2 3/8" length; .3130" ID, 2.3800" O.A.L.
8	Guide	**FP-5131961**		2-53N Engs.; Use w/seal; .2510" ID, 2.3600" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
4	Spring	**FP-5116140**		2-53 Engs.
8	Spring	**FP-5144019**		2-53N Engs.; Hi-lift camshaft stamped V, V7; .135" Wire Dia.
8	Spring	**FP-5147424**		2-53N Engs.; Lo-lift camshaft stamped V7L; .148" Wire Dia.

QTY	PUSH RODS	PART NO.	SIZE	DESCRIPTION
6	Push Rod	**FP-5128640**		
6	Push Rod Seat	**FP-5123250**		Lower
6	Push Rod Seat	**FP-5108919**		Upper; Cup type
6	Push Rod Seat	**FP-5150302**		Upper; Flange type
6	Push Rod Spring	**FP-5108918**		w/2 orange stripes; .192" Wire diameter
6	Push Rod Spring	**FP-5186858**		Valve & injector; .177" Wire diameter
6	Push Rod Retainer	**FP-5150303**		
6	Lock Nut	**FP-5151601**		Push rod; 5/16" - 24

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
4	Valve Stem Seal	**FP-8921209**		2-53 Engs.; Use w/FP-5129919 guide

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
2	Arm Assy.	**FP-8923554**		Injector
2	Rocker Shaft	**FP-5116072**		
4	Arm Support	**FP-5116128**		

(continued on next page)

4 (cont.) *Wheel Tractor* 2-53 (2-Valve Cyl. Head), 2-53N (4-Valve Cyl. Head) Engs.
1.7L 106 OHV Diesel L2, 3.875" Bore (Detroit Diesel Eng.)

CYL. HEAD & PARTS (cont.)

QTY	ROCKER PARTS (cont.)	PART NO.	SIZE	DESCRIPTION
2	Rocker Bushing	FP-8924355		Large
2	Rocker Bushing	FP-8924354		Injector; Small
6	Follower Assy.	FP-8924439		2-53 Engs.
6	Cam Follower Roller Set	FP-8923814		2-53 Engs.; Incl. pin & roller
6	Rocker Arm Clevis Pin	FP-5150314		

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
2	Camshaft Thrust Washer	FP-5116198		
4	Bolt	FP-443603		Cam guide; .250" x 20 x .750"
4	Lock Washer	FP-103319		Cam guide; .250"
2	Oil Seal	FP-23516871		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
2	Fuel Injector Seal Ring	FP-5104701		Viton®
18	Injector Hole Tube Kit	FP-8925981		Viton®

GOVERNOR

QTY	GOVERNOR	PART NO.	SIZE	DESCRIPTION
1	Governor to Cyl. Block Gasket	FP-5116336		Front; End plate

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Cylinder Cover Gasket	FP-5116354		Front; End plate

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-23517625		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-23517625WS		Incl. front & rear seals; Incl. Front & Rear Seals

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-5198431	*STD*	
1	Cam Set	FP-5198468	*10*	
1	Cam Set	FP-5198469	*20*	

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Wear Sleeve	FP-5198502		Use w/FP-5198503
1	Oil Seal	FP-5116224		Single lip
1	Oil Seal	FP-5198503		Single lip O/S ID

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-5128917		Double lip; Wet only; Double Lip
1	Oil Seal	FP-5116229		Single lip
1	Oil Seal	FP-5196852		Single lip O/S ID
1	Wear Sleeve	FP-23516636		Use w/O/S seal only

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
3	Plain Main Brg.	FP-8924357	*STD*	
3	Plain Main Brg.	FP-8924358	*2*	
3	Plain Main Brg.	FP-8924359	*10*	
3	Plain Main Brg.	FP-8924360	*20*	
3	Plain Main Brg.	FP-8924361	*30*	
1	Thrust Washer Set	FP-5116197S	*STD*	Position Rear
4	Thrust Washer	FP-5116197	*STD*	Position Rear
4	Thrust Washer	FP-5196755	*5*	Position Rear
4	Thrust Washer	FP-5196756	*10*	Position Rear

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
2	Liner w/o Sealing Ring	FP-5132803	*STD*	.840" Port Height
2	Liner w/o Sealing Ring	FP-5101016	*10*	.840" Port Height
2	Liner w/o Sealing Ring	FP-5149944	*20*	.840" Port Height
2	Liner w/Sealing Rings	FP-5132803WS	*STD*	Incl. (2) FP-5121256 sealing rings; Firewall type w/.840" Port length
2	Cylinder Kit Complete	FP-5198903	*STD*	2-53 Engs.; Trunk type; Trunk style piston; 17:1 C.R.
2	Cylinder Kit Complete	FP-519890310	*10*	2-53 Engs.; Trunk type; Trunk style piston; 17:1 C.R.
2	Cylinder Kit Complete	FP-519890320	*20*	2-53 Engs.; Trunk type; Trunk style piston; 17:1 C.R.
2	Cylinder Kit Complete	FP-5198899	*STD*	2-53N Engs.; Trunk style piston; 21:1 C.R.
2	Cylinder Kit Complete	FP-519889910	*10*	2-53N Engs.; Trunk style piston; 21:1 C.R.
2	Cylinder Kit Complete	FP-5198904	*STD*	2-53N Engs.; Trunk type; Trunk style piston; 21:1 C.R.
2	Cylinder Kit Complete	FP-519890410	*10*	2-53N Engs.; Trunk type; Trunk style piston; 21:1 C.R.

(continued on next page)

Wheel Tractor 2-53 (2-Valve Cyl. Head), 2-53N (4-Valve Cyl. Head) Engs. 4 (cont.)

1.7L 106 OHV Diesel L2, 3.875" Bore (Detroit Diesel Eng.)

CYLINDER COMPONENTS (cont.)

QTY	LINERS (cont.)	PART NO.	SIZE	DESCRIPTION
2	Cylinder Kit Complete	FP-519890420	20	2-53N Engs.; Trunk type; Trunk style piston; 21:1 C.R.
4	Sealing Ring, Liner	FP-5121256		.010 O/S

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
2	Piston With Retainers	FP-5195931		2-53 Engs.; Trunk style piston
2	Piston With Retainers	FP-5198877		2-53N Engs.; Trunk style piston
2	Pin	FP-5116189		2-53N Engs.
4	Piston Pin Retainer	FP-5180250		
4	Pin Bushing	FP-5116181		2 req'd. per rod

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	FP-5149452	STD	
2	Rod Pair	FP-5149454	10	
2	Rod Pair	FP-5149455	20	
2	Rod Pair	FP-5149456	30	
2	Rod Pair	FP-514945240	40	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
2	Ring Set Single Cylinder	FP-5198822	STD	1-.082, 3-3/32, 2-3/16 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-253		2-53 Engs.; w/Trunk style piston
1	Complete Overhaul Kit	FP-253OH		2-53 Engs.; w/Trunk style piston

Hay Baler VF4, VF4D, VF41, VH4, VH4D, VH4DM Engs. *Power Unit* VF4, VF4D, VF41, VH4, VH4D, VH4DM Engs. *Windrower* VF4, VF4D, VF41, VH4, VH4D, VH4DM Engs. 5

1.8L 108 L-HEAD V4, 3.25" Bore (Wisconsin Eng.)

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
8	Intake	FP-V816		Exh. & Int.; 1.3130" Head Dia., .3085" Stem Dia., 4.7660" O.A.L.
4	Exhaust	FP-V1326X		Optional-H/D; 1.2500" Head Dia., .3085" Stem Dia., 4.7710" O.A.L.
16	Keeper	FP-VK144		1 groove; Square cut key groove
16	Keeper	VK-144R		1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	FP-VK144B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
8	Exh. & Int.	FP-24513755		1.3795" OD, 1.1250" ID, .2636" Depth

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	FP-VG635		.3155" ID, 2.5000" O.A.L.
8	Guide	FP-VG681		VF Series Engs.; .439" x 1.812"; .3133" ID, 1.8100" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-VS793		Use w/RC-45 rotocap; VF Series Engs.; 1.9700" Free Height
8	Spring	FP-VS468		2.3120" Free Height

CAMSHAFT GROUP

QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Cam Gear	FP-2214108		VF4 & VH4D Engs.; 48 Teeth

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Repair Sleeve	FP-SL11M		3/32" wall, must be cut to correct length

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Cast Piston	FP-628CP	STD	Cast; Use w/FP5051X or FP5051KX series ring set; 3-3/32", 1-3/16" Ring Groove, 1.500" CD, .7503" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 3 ring piston in sets only
4	Cast Piston	FP-628CP20	20	Cast; 2-3/32", 1-3/16" Ring Groove, 1.500" CD, .7503" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 3 ring piston in sets only
4	Cast Piston	FP-628CP30	30	Cast; 2-3/32", 1-3/16" Ring Groove, 1.500" CD, .7503" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 3 ring piston in sets only
4	Cast Piston	FP-628CP40	40	Cast; 2-3/32", 1-3/16" Ring Groove, 1.500" CD, .7503" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 3 ring piston in sets only

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5 (cont.) *Hay Baler* VF4, VF4D, VF41, VH4, VH4D, VH4DM Engs. *Power Unit* VF4, VF4D, VF41, VH4, VH4D, VH4DM Engs. *Windrower* VF4, VF4D, VF41, VH4, VH4D, VH4DM Engs.

1.8L 108 L-HEAD V4, 3.25" Bore (Wisconsin Eng.)

CYLINDER COMPONENTS (cont.)

QTY	PISTONS (cont.)	PART NO.	SIZE	DESCRIPTION
4	Cast Piston	**FP-628CP60**	*60*	Cast; 2-3/32", 1-3/16" Ring Groove, 1.500" CD, .7503" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 3 ring piston in sets only
4	Cast Piston - Individual	**FP-W628CP**	*STD*	Cast; Use w/FP5051X or FP5051KX series ring set; 3-3/32", 1-3/16" Ring Groove, 1.500" CD, .7500" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 3 ring piston in sets only
4	Cast Piston - Individual	**FP-W628CP20**	*20*	Cast; 2-3/32", 1-3/16" Ring Groove, 1.500" CD, .7500" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 3 ring piston in sets only
4	Cast Piston - Individual	**FP-W628CP30**	*30*	Cast; 2-3/32", 1-3/16" Ring Groove, 1.500" CD, .7500" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 3 ring piston in sets only
4	Cast Piston - Individual	**FP-W628CP40**	*40*	Cast; 2-3/32", 1-3/16" Ring Groove, 1.500" CD, .7500" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 3 ring piston in sets only
4	Cast Piston - Individual	**FP-W628CP60**	*60*	Cast; 2-3/32", 1-3/16" Ring Groove, 1.500" CD, .7500" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 3 ring piston in sets only
4	Pin Bushing	**FP-1394**		1.000" max. length
4	Pin Bushing	**1394 +**		1.000" max. length; When depleted use FP-1394

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-3520CP**		VF4, VF4D Engs.
4	Rod Pair	**FP-3520CP10**		VF4, VF4D Engs.
4	Rod Pair	**FP-3520CP20**		VF4, VF4D Engs.
4	Rod Pair	**FP-3645CP**		VH4, VH4D, VH4DM Engs.
4	Rod Pair	**FP-3645CP10**		VH4, VH4D, VH4DM Engs.
4	Rod Pair	**FP-3645CP20**		VH4, VH4D, VH4DM Engs.

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	**FP-5051KX**	*STD*	3-3/32, 1-3/16
1	Premium Set	**FP-5051KX20**	*20*	3-3/32, 1-3/16
1	Premium Set	**FP-5051KX40**	*40*	3-3/32, 1-3/16
1	Premium Set	**FP-5051KX60**	*60*	3-3/32, 1-3/16
1	Standard Set	**FP-10366X**	*STD*	VF4D Engs.; 3-5/64, 1-3/16
1	Standard Set	**FP-5051X**	*STD*	3-3/32, 1-3/16
1	Standard Set	**FP-5051X20**	*20*	3-3/32, 1-3/16
1	Standard Set	**FP-5051X30**	*30*	3-3/32, 1-3/16
1	Standard Set	**FP-5051X40**	*40*	3-3/32, 1-3/16
1	Standard Set	**FP-5051X60**	*60*	3-3/32, 1-3/16
4	Premium Single Cylinder Set	**W-5051KX20** 20-30-60		3-3/32, 1-3/16
4	Premium Single Cylinder Set	**W-5051KX30** 20-30-60		3-3/32, 1-3/16
4	Premium Single Cylinder Set	**W-5051KX60** 20-30-60		3-3/32, 1-3/16
4	Standard Single Cylinder Set	**W-5051X** Std-30		3-3/32, 1-3/16
4	Standard Single Cylinder Set	**W-5051X30** Std-30		3-3/32, 1-3/16

6 *Combine* IXA Eng.

1.9L 113 L-HEAD L4, 3" Bore (Hercules Eng.)

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	**FP-V429**		1.4840" Head Dia., .3100" Stem Dia., 3.9260" O.A.L.
4	Exhaust	**FP-V428**		1.3583" Head Dia., .3100" Stem Dia., 3.9213" O.A.L.

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	**FP-VG930**		.485" OD; 3/8" Counterbore; .3120" ID, 2.0940" O.A.L.
8	Guide	**FP-VG456**		.532" OD; .3120" ID, 2.0940" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-VS622**		1.7650" Free Height

CYLINDER COMPONENTS

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-1450SB**	*STD*	
4	Rod Pair	**FP-1450SB10**	*10*	

(continued on next page)

+ Superseded Part Number

Combine **IXA Eng.** **6**
1.9L 113 L-HEAD L4, 3" Bore (Hercules Eng.) **(cont.)**

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS. (cont.)	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-1450SB20**	*20*	
4	Rod Pair	**FP-1450SB30**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Standard Set	**FP-617X**	*STD*	2-1/8, 1-3/16

Wheel Tractor **420, 430, 440 Engs.** **7**
1.9L 113 OHV L2, 4.25" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
8	Keeper	**FP-B367R**		2 groove
8	Keeper	**VK-66R**		2 groove; Hardened

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	**FP-PG113FS**		

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-1475M**	*STD*	Late Engs.

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-4003M**	*STD*	
1	Main Set	**FP-4003M10**	*10*	
1	Main Set	**FP-4003M20**	*20*	
1	Main Set	**FP-4003M30**	*30*	

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
2	Pin Bushing	**FP-2204Y**		Late Engs.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	**FP-2205CP**	*STD*	Early Engs.
2	Rod Pair	**FP-2205CP10**	*10*	Early Engs.
2	Rod Pair	**FP-2205CP20**	*20*	Early Engs.
2	Rod Pair	**FP-2205CP30**	*30*	Early Engs.
2	Rod Pair	**FP-2210SB**	*STD*	Late Engs.
2	Rod Pair	**FP-2210SB10**	*10*	Late Engs.
2	Rod Pair	**FP-2210SB20**	*20*	Late Engs.
2	Rod Pair	**FP-2210SB30**	*30*	Late Engs.
2	Rod Pair	**FP-2210SB40**	*40*	Late Engs.

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
2	Ring Set Single Cylinder	**FP-W5589KX**	*STD*	
1	Premium Set	**FP-5589KX**	*STD*	3-3/32, 1-1/4 (2 cyl. set)

Combine **115G Eng.** *Power Unit* **115G Eng.** *Wheel Tractor* **115G Eng.** *Windrower* **115G Eng.** *Crawler Tractor* **115G Eng.** **8**
1.9L 115 OHV L4, 3.5" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	**FP-V1629**		1.6880" Head Dia., .3415" Stem Dia., 4.7750" O.A.L.
4	Exhaust	**FP-V3922**		1.3750" Head Dia., .3415" Stem Dia., 4.7780" O.A.L.
16	Keeper	**VK-63**		2 groove; Round key groove

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	**FP-VG576**		.3440" ID, 2.3750" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-VS1430**		2.1250" Free Height

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	**ST-2001**		Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal Bulk	**ST-2001BC**		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

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8 (cont.) *Combine* **115G Eng.** *Power Unit* **115G Eng.** *Wheel Tractor* **115G Eng.** *Windrower* **115G Eng.** *Crawler Tractor* **115G Eng.**
1.9L 115 OHV L4, 3.5" Bore

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	**FP-PG115FS**		

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-1251M**	*STD*	

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-4344M**	*STD*	From Ser. No. 15,083
1	Main Set	**FP-4344M10**	*10*	From Ser. No. 15,083
1	Main Set	**FP-4344M20**	*20*	From Ser. No. 15,083
1	Main Set	**FP-4144M**	*STD*	To Ser. No. 15,082
1	Main Set	**FP-4144M10**	*10*	To Ser. No. 15,082
1	Main Set	**FP-4144M20**	*20*	To Ser. No. 15,082

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	**FP-2599Y20**		To Ser. No. 15,082

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-2595A**	*STD*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A10**	*10*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A20**	*20*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A30**	*30*	A-Series aluminum bearings

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
2	Premium Set	**FP-5835KX**	*STD*	3-3/32, 1-3/16 (2 cyl. set)
4	Premium Single Cylinder Set	**W-5835KX** Std Only		3-3/32, 1-3/16 (1 cyl. set)

9 *Combine* **IXB Eng.**
2.2L 133 L-HEAD L4, 3.25" Bore (Hercules Eng.)

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	**FP-V429**		1.4840" Head Dia., .3100" Stem Dia., 3.9260" O.A.L.
4	Exhaust	**FP-V428**		1.3583" Head Dia., .3100" Stem Dia., 3.9213" O.A.L.

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	**FP-VG930**		.485" OD; 3/8" Counterbore; .3120" ID, 2.0940" O.A.L.
8	Guide	**FP-VG456**		.532" OD; .3120" ID, 2.0940" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-VS622**		1.7650" Free Height

CYLINDER COMPONENTS

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-1450SB**	*STD*	W/1.7470-1.7480" standard shaft size
4	Rod Pair	**FP-1450SB10**	*10*	W/1.7470-1.7480" standard shaft size
4	Rod Pair	**FP-1450SB20**	*20*	W/1.7470-1.7480" standard shaft size
4	Rod Pair	**FP-1450SB30**	*30*	W/1.7470-1.7480" standard shaft size
4	Rod Pair	**FP-2425CP**	*STD*	W/1.8090-1.8100" standard shaft size
4	Rod Pair	**FP-2425CP10**	*10*	W/1.8090-1.8100" standard shaft size
4	Rod Pair	**FP-2425CP20**	*20*	W/1.8090-1.8100" standard shaft size
4	Rod Pair	**FP-2425CP30**	*30*	W/1.8090-1.8100" standard shaft size

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Standard Set	**FP-617X**	*STD*	2-1/8, 1-3/16

10 *Loader* **3135G Eng.** *Power Unit* **JD135G, 3135G Engs.** *Wheel Tractor* **3135G Eng.** *Windrower* **3135G Eng.** *Crawler Tractor* **3135G Eng.** *Loader Tractor* **3135G Eng.**
2.2L 135 OHV L3, 3.8594" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	**FP-R98460**		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Keeper	**FP-41339**		1 groove; Square cut key groove

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Loader **3135G Eng.** *Power Unit* **JD135G, 3135G Engs.** *Wheel Tractor* **3135G Eng.** *Windrower* **3135G Eng.** *Crawler Tractor* **3135G Eng.** *Loader Tractor* **3135G Eng.** **10 (cont.)**
2.2L 135 OHV L3, 3.8594" Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE (cont.)	PART NO.	SIZE	DESCRIPTION
12	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
12	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
6	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Motorola No. A12NJD453; To Ser. No. 99,896
1	Ball Brg.	FP-JD9449		Front; Motorola No. A12NJD604; From Ser. No. 99,897

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
6	Lifter	FP-T20073		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R94419		Models 600, 700, 734; From Ser. No. 130,498
1	Water Pump Repair/Rebuild Kit	FP-939840979		w/Pump housing marked R56787, R62902
1	Shaft & Bearing Assembly	FP-JD9257		w/Pump housing marked T23631

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-RE33705		180 Deg.
1	Thermostat Cover Gasket	FP-T20215		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		
1	Block to End Plate Front Gskt	FP-R131794		

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-PG219CS		Rubber one-piece rear main brg. seal incl.; Wear sleeve incl.
1	Kit Gasket Set	FP-2601385		Compl.; Rear main brg. seal incl.; Wear sleeve incl.
1	Kit Gasket Set	260-1385		Compl.; Rear main brg. seal incl.; Wear sleeve incl.

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-SK67942		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3002	*STD*	
1	Main Set	FP-MBK300210	*10*	
1	Main Set	FP-MBK300220	*20*	
1	Main Set	FP-MBK300230	*30*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R61871		Oil pump inlet; From Ser. No. 240,554
1	O-Ring	FP-R74354		Oil pump outlet tube; w/Pump housing marked R54615, T20078; From Ser. No. 240,554

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
3	Sleeve Assy.	FP-SL2688		Model 1020 From Ser. No. 162,079; Model JD135G; Late Models JD300, JD350; Three O-rings used; No grooves on sleeve; Contains piston to replace O.E. No. T23504T
3	Sleeve Assy.	FP-SL2689		Model 1020 To Ser. No. 162,078; Early Models JD300, JD350; Three O-rings used; Two grooves on sleeve; Contains piston to replace O.E. No. T23504T

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
3	Pin Bushing	FP-2599Y20		

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
3	Rod Pair	FP-2595A	*STD*	A-Series aluminum bearings

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10 (cont.) *Loader* 3135G Eng. *Power Unit* JD135G, 3135G Engs. *Wheel Tractor* 3135G Eng. *Windrower* 3135G Eng. *Crawler Tractor* 3135G Eng. *Loader Tractor* 3135G Eng.
2.2L 135 OHV L3, 3.8594" Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS. (cont.)	PART NO.	SIZE	DESCRIPTION
3	Rod Pair	FP-2595A10	10	A-Series aluminum bearings
3	Rod Pair	FP-2595A20	20	A-Series aluminum bearings
3	Rod Pair	FP-2595A30	30	A-Series aluminum bearings

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
3	Ring Set Single Cylinder	FP-AR70633	STD	2-3/32, 1-.196 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	FP-135GLOHK		Model 1020 From Ser. No. 162,079; Model JD135G, Late Models JD300, JD350
1	Complete Overhaul Kit	FP-135GEOHK		Model 1020 To Ser. No. 162,078; Early Models JD300, JD350

11 *Wheel Tractor* 3135D Eng.
2.2L 135 OHV Diesel L3, 3.8594" Bore

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
1	Air Intake Gasket	FP-R81275		

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-PG219CS		Rubber one-piece rear main brg. seal incl.; Wear sleeve incl.

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-SK67942		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		From Ser. No. 3,649

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3004	STD	w/Flanged thrust brg.
1	Main Set	FP-MBK300410	10	w/Flanged thrust brg.
1	Main Set	FP-MBK300420	20	w/Flanged thrust brg.
1	Main Set	FP-MBK300430	30	w/Flanged thrust brg.

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	FP-RE55343		w/Pump housing marked R54615

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
3	Pin Bushing	FP-T23471		1.1896" ID, 1.313" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
3	Rod Pair	FP-RE27348	STD	
3	Rod Pair	FP-RE27349	10	
3	Rod Pair	FP-RE27358	20	
3	Rod Pair	FP-RE27364	30	

12 *Power Unit* 3135NG Eng. (Natural Gas). *Wheel Tractor* 3135NG Eng. (Natural Gas).
2.2L 135 OHV NG L3, 3.8594" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	FP-R98460		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Keeper	FP-41339		1 groove; Square cut key groove
12	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
12	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
6	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

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Power Unit **3135NG Eng. (Natural Gas).** *Wheel Tractor* **3135NG Eng. (Natural Gas).** **12**
2.2L 135 OHV NG L3, 3.8594" Bore **(cont.)**

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	**FP-JD9449**		Front; Motorola No. A12NJD453; To Ser. No. 99,896
1	Ball Brg.	**FP-JD9449**		Front; Motorola No. A12NJD604; From Ser. No. 99,897

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
6	Lifter	**FP-T20073**		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	**FP-R94419**		Models 600, 700, 734; From Ser. No. 130,498
1	Water Pump Repair/Rebuild Kit	**FP-939840979**		w/Pump housing marked R56787, R62902
1	Shaft & Bearing Assembly	**FP-JD9257**		w/Pump housing marked T23631

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	**FP-RE33705**		180 Deg.
1	Thermostat Cover Gasket	**FP-T20215**		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	**FP-R97351**		
1	Block to End Plate Front Gskt	**FP-R131794**		

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	**FP-PG219CS**		Rubber one-piece rear main brg. seal incl.; Wear sleeve incl.
1	Kit Gasket Set	**FP-2601385**		Compl.; Rear main brg. seal incl.; Wear sleeve incl.
1	Kit Gasket Set	**260-1385**		Compl.; Rear main brg. seal incl.; Wear sleeve incl.

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3002**	*STD*	
1	Main Set	**FP-MBK300210**	*10*	
1	Main Set	**FP-MBK300220**	*20*	
1	Main Set	**FP-MBK300230**	*30*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil pump inlet; From Ser. No. 240,554
1	O-Ring	**FP-R74354**		Oil pump outlet tube; w/Pump housing marked R54615, T20078; From Ser. No. 240,554

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
3	Sleeve Assy.	**FP-SL2688**		Model 1020 From Ser. No. 162,079; Model JD135G; Late Models JD300, JD350; Three O-rings used; No grooves on sleeve; Contains piston to replace O.E. No. T23504T
3	Sleeve Assy.	**FP-SL2689**		Model 1020 To Ser. No. 162,078; Early Models JD300, JD350; Three O-rings used; Two grooves on sleeve; Contains piston to replace O.E. No. T23504T

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
3	Pin Bushing	**FP-2599Y20**		

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
3	Rod Pair	**FP-2595A**	*STD*	A-Series aluminum bearings
3	Rod Pair	**FP-2595A10**	*10*	A-Series aluminum bearings
3	Rod Pair	**FP-2595A20**	*20*	A-Series aluminum bearings
3	Rod Pair	**FP-2595A30**	*30*	A-Series aluminum bearings

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
3	Ring Set Single Cylinder	**FP-AR70633**	*STD*	2-3/32, 1-.196 (1 cyl. set)

13 *Power Unit* **145G Eng.** *Wheel Tractor* **145G Eng.**
2.4L 145 OHV L4, 3.625" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	**FP-V1629**		Wheel Tractor Model 2010; Power Unit From Ser. No. 30,000; 1.6880" Head Dia., .3415" Stem Dia., 4.7750" O.A.L.
4	Exhaust	**FP-V3922**		Wheel Tractor Model 2010; Power Unit From Ser. No. 30,000; 1.3750" Head Dia., .3415" Stem Dia., 4.7780" O.A.L.
16	Keeper	**VK-63**		2 groove; Round key groove

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	**FP-VG576**		.3440" ID, 2.3750" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-VS1430**		2.1250" Free Height

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	**ST-2001**		Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal Bulk	**ST-2001BC**		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	**FP-PG115FS**		From Ser. No. 30001

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-1251M**	*STD*	

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-4344M**	*STD*	From Ser. No. 35,834
1	Main Set	**FP-4344M10**	*10*	From Ser. No. 35,834
1	Main Set	**FP-4344M20**	*20*	From Ser. No. 35,834
1	Main Set	**FP-4144M**	*STD*	To Ser. No. 35,833
1	Main Set	**FP-4144M10**	*10*	To Ser. No. 35,833
1	Main Set	**FP-4144M20**	*20*	To Ser. No. 35,833

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	**FP-2599Y20**		

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-2595A**	*STD*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A10**	*10*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A20**	*20*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A30**	*30*	A-Series aluminum bearings

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	**FP-5923KX**	*STD*	2-3/32, 1-3/16
1	Premium Set	**FP-5504KX**	*STD*	3-3/32, 1-3/16
1	Standard Set	**FP-5504X**	*STD*	3-3/32, 1-3/16
4	Premium Single Cylinder Set	**W-5923KX** Std Only		2-3/32, 1-3/16
4	Premium Single Cylinder Set	**W-5504KX** Std Only		3-3/32, 1-3/16

14 *Power Unit* **145G Eng.** *Wheel Tractor* **145G Eng.**
2.4L 145 OHV L4 (Late), 3.625" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	**FP-V1629**		Wheel Tractor Model 2010; Power Unit From Ser. No. 30,000; 1.6880" Head Dia., .3415" Stem Dia., 4.7750" O.A.L.
4	Exhaust	**FP-V3922**		Wheel Tractor Model 2010; Power Unit From Ser. No. 30,000; 1.3750" Head Dia., .3415" Stem Dia., 4.7780" O.A.L.
16	Keeper	**VK-63**		2 groove; Round key groove

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	**FP-VG576**		.3440" ID, 2.3750" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-VS1430**		2.1250" Free Height

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	**ST-2001**		Positive type; Installation requires valve guide machining; Rubber/PTFE

(continued on next page)

Power Unit **145G Eng.** *Wheel Tractor* **145G Eng.** **14**
2.4L 145 OHV L4 (Late), 3.625" Bore **(cont.)**

CYL. HEAD & PARTS (cont.)

QTY	VALVE SEAL (cont.)	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal Bulk	**ST-2001BC**		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	**FP-PG115FS**		From Ser. No. 30001

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-1251M**	*STD*	

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-4344M**	*STD*	
1	Main Set	**FP-4344M10**	*10*	
1	Main Set	**FP-4344M20**	*20*	

CYLINDER COMPONENTS

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-2595A**	*STD*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A10**	*10*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A20**	*20*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A30**	*30*	A-Series aluminum bearings

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	**FP-5923KX**	*STD*	2-3/32, 1-3/16
1	Premium Set	**FP-5504KX**	*STD*	3-3/32, 1-3/16
1	Standard Set	**FP-5504X**	*STD*	3-3/32, 1-3/16
4	Premium Single Cylinder Set	**W-5923KX** Std Only		2-3/32, 1-3/16
4	Premium Single Cylinder Set	**W-5504KX** Std Only		3-3/32, 1-3/16

Wheel Tractor **145D Eng.** *Crawler Tractor* **145D Eng.** **15**
2.4L 145 OHV Diesel L4, 3.625" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
16	Keeper	**VK-63**		2 groove; Round key groove

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-VS1430**		2.1250" Free Height

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
4	Valve Stem Seal	**ST-2001**		Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE
4	Valve Stem Seal Bulk	**ST-2001BC**		Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-1251M**	*STD*	

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-4145M**	*STD*	Early Engs.; w/full groove brgs.
1	Main Set	**FP-4145M10**	*10*	Early Engs.; w/full groove brgs.
1	Main Set	**FP-4145M20**	*20*	Early Engs.; w/full groove brgs.
1	Main Set	**FP-4145M30**	*30*	Early Engs.; w/full groove brgs.
1	Main Set	**FP-4345M**	*STD*	Late Engs.; w/half groove brgs.
1	Main Set	**FP-4345M10**	*10*	Late Engs.; w/half groove brgs.
1	Main Set	**FP-4345M20**	*20*	Late Engs.; w/half groove brgs.

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	**FP-2599Y20**		

(continued on next page)

15 (cont.) *Wheel Tractor* **145D Eng.** *Crawler Tractor* **145D Eng.**
2.4L 145 OHV Diesel L4, 3.625" Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-2595A**	*STD*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A10**	*10*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A20**	*20*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A30**	*30*	A-Series aluminum bearings

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	**FP-5923KX**	*STD*	2-3/32, 1-3/16
1	Premium Set	**FP-5504KX**	*STD*	3-3/32, 1-3/16
1	Standard Set	**FP-5504X**	*STD*	3-3/32, 1-3/16
4	Premium Single Cylinder Set	**W-5923KX** Std Only		2-3/32, 1-3/16
4	Premium Single Cylinder Set	**W-5504KX** Std Only		3-3/32, 1-3/16

16 *Wheel Tractor* **B Eng.**
2.4L 149 OHV L2, 4.25" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Set	**FP-PG175HS**		Models B, BN, BW; From Ser. No. 96000

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	**FP-PG175FS**		Models B, BN, BW; From Ser. No. 96000

CYLINDER COMPONENTS

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	**FP-2180CP**	*STD*	w/Insert type brgs.
2	Rod Pair	**FP-2180CP10**	*10*	w/Insert type brgs.
2	Rod Pair	**FP-2180CP20**	*20*	w/Insert type brgs.

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Standard Set	**FP-T244**	*STD*	3-3/16, 1-3/16

17 *Loader* **3152G Eng.** *Wheel Tractor* **3152G Eng.**
2.5L 152 OHV L3, 3.8594" Bore

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	**FP-JD9449**		Front; Motorola No. A12NJD453; To Ser. No. 99,896
1	Ball Brg.	**FP-JD9449**		Front; Motorola No. A12NJD604; From Ser. No. 99,897

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	**FP-PG219CS**		Rubber one-piece rear main brg. seal incl.; Wear sleeve incl.

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3003**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300310**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300320**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300330**	*30*	w/Flanged thrust brg.

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil pump inlet; From Ser. No. 240,554
1	O-Ring	**FP-R74354**		Oil pump outlet tube; w/Pump housing marked R54615, T20078; From Ser. No. 240,554

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
3	Pin Bushing	**FP-T23471**		1.1896" ID, 1.313" OD, 1.570" O.A.L.

Forklift **3152D Eng.** *Loader* **3152D Eng.** *Power Unit* **JD152D, 3152D Engs.** *Wheel Tractor* **3152D Eng.** *Crawler Tractor* **3152D Eng.** *Loader Tractor* **3152D Eng.** *Dozer* **3152D Eng.** *Backhoe* **3152D Eng.**

18

2.5L 152 OHV Diesel L3, 3.8594" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R75729		Sheet metal cover
1	Head Gasket	FP-R98460		
1	Head Set	FP-RE38848		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
3	Intake	FP-R79623	*STD*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
3	Intake	FP-R79628	*3*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
3	Intake	FP-R79629	*15*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
3	Intake	FP-R79630	*30*	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
3	Exhaust	FP-R79624	*STD*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
3	Exhaust	FP-R79625	*3*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
3	Exhaust	FP-R79626	*15*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
3	Exhaust	FP-R79627	*30*	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
12	Keeper	FP-41339		1 groove; Square cut key groove
12	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
12	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
3	Exh.	FP-R51734	*STD*	
3	Int.	FP-R73064	*STD*	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
6	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
3	Rotocap	FP-RE11410		
1	Bushing	FP-T26321		Lower
1	Bushing	FP-T20034		Upper

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	FP-R87627		O-Ring type

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Exhaust Manifold Gasket	FP-R90658		
1	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
6	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
3	Fuel Injector Nozzle	FP-AR89564		
12	Washer	FP-T20055		
8	Clamp	FP-R34766		To Ser. No. 105,438
3	Washer Type Seal	FP-R48000		Lower; w/Nozzle marked 18742, 19762, 20631, 22042
3	Washer Type Seal	FP-R60746		Upper; w/Nozzle marked 20631, 22042; To Ser. No. 467,466

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Transfer pump
1	Fuel Transfer Pump Gasket	FP-R97350		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R94419		From Ser. No. 131,212
1	Water Pump Repair/Rebuild Kit	FP-925740979		w/Pump housing marked R56787, R62902
1	Water Pump Mounting Gasket	FP-T20243		
1	Shaft & Bearing Assembly	FP-JD9257		

(continued on next page)

18 (cont.) *Forklift* **3152D Eng.** *Loader* **3152D Eng.** *Power Unit* **JD152D, 3152D Engs.** *Wheel Tractor* **3152D Eng.** *Crawler Tractor* **3152D Eng.** *Loader Tractor* **3152D Eng.** *Dozer* **3152D Eng.** *Backhoe* **3152D Eng.**
2.5L 152 OHV Diesel L3, 3.8594" Bore

COOLING SYSTEM (cont.)

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	**FP-RE33705**		180 Deg.
1	Thermostat Gasket	**FP-T20219**		Thermostat housing marked R60256
1	Thermostat Cover Gasket	**FP-T20215**		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	**FP-R97351**		
1	Oil Pan Gasket	**FP-R97341**		Exc. Alum. oil pan
1	Block to End Plate Front Gskt	**FP-R131794**		

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	**FP-PG219CS**		Rubber one-piece rear main brg. seal incl.; Wear sleeve incl.
1	In-Frame Gasket Set	**FP-PG152S**		
1	Complete Overhaul Gasket Set	**FP-RE38570**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE38570WS**		Incl. crankshaft oil seals
1	Kit Gasket Set	**260-1387**		Compl.; Rear main brg. seal incl.; Wear sleeve incl.

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-AT18031**		
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		From Ser. No. 3,649

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3003**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300310**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300320**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300330**	*30*	w/Flanged thrust brg.
3	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
3	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
3	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
3	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
4	Thrust Washer	**FP-R78598**	*STD*	

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
3	Liner w/o Sealing Ring	**FP-T32340**	*STD*	O-Rings in block
3	Liner w/o Sealing Ring	**FP-R48635**	*STD*	To Ser. No. 154,765; O-Rings on liner
3	Liner w/Sealing Rings	**FP-AR51902**	*STD*	
3	Liner w/Sealing Rings	**FP-T32340WS**	*STD*	From Ser. No. 154,766
3	Cylinder Kit Complete	**FP-AR71591**		w/Con. Rod marked T20007, R81410; From Ser. No. 154,766; Contains FP-T32340-WS liner; O-rings in block
3	Cylinder Kit Complete	**FP-CK34818635**	*STD*	w/Con. Rod marked T20007, R81410; To Ser. No. 154,765; Contains FP-AR51902 liner; O-rings on liner
3	Cyl. Liner Sealing Ring Kit	**FP-AR71617**		
3	Sealing Ring, Liner	**FP-R48767**		Rectangle; Top
3	Sealing Ring, Liner	**FP-R48637**		To Ser. No. 154,765; Rectangle; Top & Bottom
3	Sealing Ring, Liner	**FP-R48638**		To Ser. No. 154,765; Round
3	Sealing Ring	**FP-SLR2497**		Round; Bottom; In block

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
3	Piston Body w/o Pin	**FP-T23481**		
3	Piston Kit w/Pin & Retainers	**FP-T23481WP**		
3	Pin	**FP-T23482**		
6	Piston Pin Retainer	**FP-R51112**		
3	Pin Bushing	**FP-T23471**		w/Con. Rod marked R81410, T20007; 1.1896" ID, 1.313" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Con. Rod Bolt	**FP-R80033**		w/Con. Rod marked R80032, R80034, R81410, R105011, R113612; Torque-To-Yield bolt; Replacement recommended

(continued on next page)

Forklift **3152D Eng.** *Loader* **3152D Eng.** *Power Unit* **JD152D, 3152D Engs.** *Wheel Tractor* **3152D Eng.** *Crawler Tractor* **3152D Eng.** *Loader Tractor* **3152D Eng.** *Dozer* **3152D Eng.** *Backhoe* **3152D Eng.** — 18 (cont.)

2.5L 152 OHV Diesel L3, 3.8594" Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS. (cont.)	PART NO.	SIZE	DESCRIPTION
6	Con. Rod Bolt	**FP-R74194**		w/Con. Rod marked T20007, R51727, R58979; Torque-To-Yield bolt; Replacement recommended
3	Rod Pair	**FP-RE27348**	*STD*	
3	Rod Pair	**FP-RE27349**	*10*	
3	Rod Pair	**FP-RE27358**	*20*	
3	Rod Pair	**FP-RE27364**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
3	Ring Set Single Cylinder	**FP-AR70633**	*STD*	2-3/32, 1-.196 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-152EORLIFK**		w/Block marked T24963, T26935; w/Con. Rod marked T20007; To Ser. No. 154,765; O-rings on liner; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-152LIFK**		w/Block marked T32339, R53240, R55100, R72967; w/Con. Rod marked T20007; From Ser. No. 154,766; O-rings in block; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-152LOHK**		w/Block marked R53240, R55100, R72967, T32339; w/Con. Rod marked T20007; From Ser. No. 154,766; O-rings in block; Incl. front & rear seals; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-152EORLOHK**		w/Block marked T24963, T26935; w/Con. Rod marked T20007; To Ser. No. 154,765; O-rings on liner; Incl. front & rear seals; Incl. Torque-To-Yield con. rod bolts

Hay Baler **AP4, V460D, V461D, VG4D, VP4, VP4D Engs.** *Harvester* **AP4, V460D, V461D, VG4D, VP4, VP4D Engs.** — 19

2.5L 154 L-HEAD V4, 3.5" Bore (Wisconsin Eng.)

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	**FP-V818**		VG4D & VP4D Engs.; 1.5630" Head Dia., .3089" Stem Dia., 6.3346" O.A.L.
4	Exhaust	**FP-V1676X**		VG4D & VP4D Engs.; 1.5570" Head Dia., .3085" Stem Dia., 6.3330" O.A.L.
16	Keeper	**VK-144**		Exc. V460D, V461D Engs.; 1 groove; Square cut key groove
16	Keeper	**VK-144R**		Exc. V460D, V461D Engs.; 1 groove; Square cut key groove; Hardened
16	Keeper	**VK-115**		V460D, V461D Engs.; 1 groove; Square cut key groove; Carton pack 32
16	Keeper	**VK-115R**		V460D, V461D Engs.; 1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	**VK-115B**		V460D, V461D Engs.; 1 groove; Square cut key groove; Carton of 1000

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	**VG-855**		VG4D & VP4D Engs.; .3130" ID, 2.5000" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-VS468**		AP4 Engs.; 2.3120" Free Height

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Plain Main Brg.	**FP-3224CP**	*STD*	Position Center; V460D & V461D Engs
1	Plain Main Brg.	**FP-3224CP10**	*10*	Position Center; V460D & V461D Engs
2	Cone Taper Brg.	**FP-JD8130**		Position Ends; V460D & V461D Engs.
2	Cup Taper Brg.	**FP-JD7466**		Position Ends; V460D & V461D Engs.
2	Cup Taper Brg.	**453A**		Position 1-2; VG4D, VP4 Engs.

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
1	Repair Sleeve	**SL-15M** Std Only		3/32" wall, Must be cut to correct length

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	**1394 +**		VG4D & VP4 Engs.; 1.000" max. length; When depleted use FP-1394
4	Pin Bushing	**FP-1394**		1.000" max. length

(continued on next page)

19 (cont.) *Hay Baler* AP4, V460D, V461D, VG4D, VP4, VP4D Engs. *Harvester* AP4, V460D, V461D, VG4D, VP4, VP4D Engs.

2.5L 154 L-HEAD V4, 3.5" Bore (Wisconsin Eng.)

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-3605SB	STD	VG4D, VP4 Engs.
4	Rod Pair	FP-3605SB10	10	VG4D, VP4 Engs.
4	Rod Pair	FP-3605SB20	20	VG4D, VP4 Engs.
4	Rod Pair	FP-3220CP	STD	V460D, V461D Engs.; w/2.1232-2.1240" std. shaft size
4	Rod Pair	FP-3220CP10	10	V460D, V461D Engs.; w/2.1232-2.1240" std. shaft size
4	Rod Pair	FP-3220CP20	20	V460D, V461D Engs.; w/2.1232-2.1240" std. shaft size
4	Rod Pair	FP-3220CP30	30	V460D, V461D Engs.; w/2.1232-2.1240" std. shaft size

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Premium Set	FP-5091KX	STD	AP4, AP41, VG4D, VP4, VP4D Engs.; 3-1/8, 1-3/16 (1 cyl. set)
4	Premium Set	FP-5091KX30	30	AP4, AP41, VG4D, VP4, VP4D Engs.; 3-1/8, 1-3/16 (1 cyl. set)
1	Premium Set	FP-934KX	STD	AP4, VG4D, VP4, VP4D Engs.; 3-1/8, 1-3/16
1	Premium Set	FP-934KX20	20	AP4, VG4D, VP4, VP4D Engs.; 3-1/8, 1-3/16
1	Premium Set	FP-934KX30	30	AP4, VG4D, VP4, VP4D Engs.; 3-1/8, 1-3/16
1	Premium Set	FP-934KX60	60	AP4, VG4D, VP4, VP4D Engs.; 3-1/8, 1-3/16
4	Premium Single Cylinder Set	W-934KX Std Only		AP4, VG4D, VP4, VP4D Engs.; 3-1/8, 1-3/16
4	Standard Single Cylinder Set	W-934X Std Only		AP4, VG4D, VP4, VP4D Engs.; 3-1/8, 1-3/16

20 *Combine* 155D Eng. *Power Unit* 155D Eng. *Wheel Tractor* 155D Eng.

2.5L 155 OHV Diesel L4, 3.75" Bore

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-1251M	STD	

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-4145M	STD	
1	Main Set	FP-4145M10	10	
1	Main Set	FP-4145M20	20	
1	Main Set	FP-4145M30	30	

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	FP-2599Y20		

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-2595A	STD	A-Series aluminum bearings
4	Rod Pair	FP-2595A10	10	A-Series aluminum bearings
4	Rod Pair	FP-2595A20	20	A-Series aluminum bearings
4	Rod Pair	FP-2595A30	30	A-Series aluminum bearings

21 *Combine* F162 Eng. *Harvester* F162 Eng.

2.7L 162 L-HEAD L4, 3.4375" Bore (Continental Eng.)

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-V1748	STD	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L.
4	Exhaust	FP-V800	STD	Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L.
4	Exhaust	FP-V954	STD	Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L.
4	Exhaust	FP-V1684	STD	Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L.
16	Keeper	FP-VK142		For drilled stem
16	Keeper	FP-VK144		1 groove; Square cut key groove
16	Keeper	VK-144R		1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	FP-VK144B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	245-1437-3N Std Only		Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth
4	Exh.	FP-24513753	STD	1.3795" OD, 1.0625" ID, .1855" Depth
4	Exh.	245-1437-3 Std Only		1.4425" OD, 1.1880" ID, .2160" Depth
4	Int.	245-1625-1N Std Only		Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
4	Int.	FP-2451348E1N	STD	1.3480" OD, 1.0870" ID, .2005" Depth
4	Int.	245-1625-1 Std Only		1.6300" OD, 1.3750" ID, .2160" Depth

(continued on next page)

Combine **F162 Eng.** *Harvester* **F162 Eng.** **21**
2.7L 162 L-HEAD L4, 3.4375" Bore (Continental Eng.) **(cont.)**

CYL. HEAD & PARTS (cont.)

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	**FP-VG418**		Exc. Rototype; .3425" ID, 2.3100" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-VS356**		2.0000" Free Height

CAMSHAFT GROUP

QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Cam Gear	**FP-2212601**		Governor type; 48 Teeth
1	Cam Gear	**FP-2212600**		Replacement O.E. No. F400H310; 48 Teeth

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Kit Gasket Set	**260-1355**		Compl.; Timing cover gskt. & seal not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-1158M**	*STD*	

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crank Gear	**FP-2212603A**		Replacement O.E. No. F400H326; 24 Teeth

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-4004M**	*STD*	W/Single flanged front brg.
1	Main Set	**FP-4004M10**	*10*	W/Single flanged front brg.
1	Main Set	**FP-4004M20**	*20*	W/Single flanged front brg.
1	Main Set	**FP-4005M**	*STD*	W/Straight shell front brg.
1	Main Set	**FP-4005M10**	*10*	W/Straight shell front brg.
1	Main Set	**FP-4005M20**	*20*	W/Straight shell front brg.
1	Main Set	**FP-6632M**	*STD*	W/Straight shell front brg. & thrust washer
1	Main Set	**FP-6632M10**	*10*	W/Straight shell front brg. & thrust washer
1	Main Set	**FP-6632M20**	*20*	W/Straight shell front brg. & thrust washer
1	Main Set	**FP-6632M30**	*30*	W/Straight shell front brg. & thrust washer
1	Thrust Washer Set	**FP-9811BFA**	*STD*	Position 1; Use w/straight shell main brg. set
1	Thrust Washer	**FP-9811BF**	*STD*	Position 1; Use w/Flanged main brg.; .0960" Max. Thickness

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump	**FP-2244132**		Cast Iron drive gear; Use w/Cast Iron cams; 7 1/8" from flange to end of shaft; Incl. screen
1	Oil Pump	**FP-2244137**		Steel drive gear w/groove at pin; Use w/Steel cams; 7-1/8" from flange to end of shaft; Incl. pin

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
1	Repair Sleeve	**SL-14M** Std Only		3/32" wall, must be cut to correct length

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Cast Piston	**FP-1102P**	*STD*	Cast; 1-5/64", 2-3/32", 1-1/4" Ring Groove, 2.000" CD, .8592" Pin Dia., Flat Head
4	Cast Piston	**FP-1102P20**	*20*	Cast; 1-5/64", 2-3/32", 1-1/4" Ring Groove, 2.000" CD, .8592" Pin Dia., Flat Head
4	Cast Piston	**FP-1102P30**	*30*	Cast; 1-5/64", 2-3/32", 1-1/4" Ring Groove, 2.000" CD, .8592" Pin Dia., Flat Head
4	Cast Piston	**FP-1102P40**	*40*	Cast; 1-5/64", 2-3/32", 1-1/4" Ring Groove, 2.000" CD, .8592" Pin Dia., Flat Head
4	Cast Piston	**FP-1102P60**	*60*	Cast; 1-5/64", 2-3/32", 1-1/4" Ring Groove, 2.000" CD, .8592" Pin Dia., Flat Head
4	Cast Piston - Individual	**FP-W1102P**	*STD*	Cast; 1-5/64", 2-3/32", 1-1/4" Ring Groove, 2.000" CD, .8592" Pin Dia., Flat Head
4	Cast Piston - Individual	**FP-W1102P20**	*20*	Cast; 1-5/64", 2-3/32", 1-1/4" Ring Groove, 2.000" CD, .8592" Pin Dia., Flat Head
4	Cast Piston - Individual	**FP-W1102P30**	*30*	Cast; 1-5/64", 2-3/32", 1-1/4" Ring Groove, 2.000" CD, .8592" Pin Dia., Flat Head
4	Cast Piston - Individual	**FP-W1102P40**	*40*	Cast; 1-5/64", 2-3/32", 1-1/4" Ring Groove, 2.000" CD, .8592" Pin Dia., Flat Head
4	Cast Piston - Individual	**FP-W1102P60**	*60*	Cast; 1-5/64", 2-3/32", 1-1/4" Ring Groove, 2.000" CD, .8592" Pin Dia., Flat Head
4	Pin Bushing	**8649XAS**		Forging No. F400D-502; Full round, thin wall .0055" O/S OD bushing
4	Pin Bushing	**8649XA**		Forging No. F400D-502; Full round, thin wall bushing w/.9150" OD
4	Pin Bushing	**8649V**		Forging No. F400D-502; Split type, thin wall bushing w/.9135" OD
4	Pin Bushing	**8649V20**		Forging No. F400D-502; Split type, thin wall bushing w/.9135" OD & .020" extra bore stock

(continued on next page)

21 (cont.) *Combine* F162 Eng. *Harvester* F162 Eng.
2.7L 162 L-HEAD L4, 3.4375" Bore (Continental Eng.)

CYLINDER COMPONENTS (cont.)

QTY	PISTONS (cont.)	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	FP-9324X		Full round, heavy wall bushing w/1.0625" OD; Forging No. F400D-500

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	FP-9320CPA	STD	Position 1-3
2	Rod Pair	FP-9320CPA2	2	Position 1-3
2	Rod Pair	FP-9320CPA10	10	Position 1-3
2	Rod Pair	FP-9320CPA20	20	Position 1-3
2	Rod Pair	FP-9320CPA30	30	Position 1-3
2	Rod Pair	FP-9320CPA40	40	Position 1-3
2	Rod Pair	FP-9320CP	STD	Position 2-4
2	Rod Pair	FP-9320CP10	10	Position 2-4
2	Rod Pair	FP-9320CP20	20	Position 2-4
2	Rod Pair	FP-9320CP30	30	Position 2-4
2	Rod Pair	FP-9320CP40	40	Position 2-4

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	FP-E323KC	STD	Check piston grooving before supplying ring set; 1-5/64, 2-3/32, 1-1/4
1	Premium Set	FP-E323KC20	20	Check piston grooving before supplying ring set; 1-5/64, 2-3/32, 1-1/4
1	Premium Set	FP-E323KC30	30	Check piston grooving before supplying ring set; 1-5/64, 2-3/32, 1-1/4
1	Premium Set	FP-E323KC40	40	Check piston grooving before supplying ring set; 1-5/64, 2-3/32, 1-1/4
1	Premium Set	FP-E323KC60	60	Check piston grooving before supplying ring set; 1-5/64, 2-3/32, 1-1/4
1	Premium Set	FP-926KX	STD	Check piston grooving before supplying ring set; 3-1/8, 1-1/4
1	Premium Set	FP-5039KX	STD	Check piston grooving before supplying ring set; 3-1/8, 1-3/16
1	Premium Set	FP-5607KX	STD	Check piston grooving before supplying ring set; 3-3/32, 1-1/4
1	Standard Set	FP-E323X	STD	Check piston grooving before supplying ring set; 1-5/64, 2-3/32, 1-1/4
1	Standard Set	FP-E323X20	20	Check piston grooving before supplying ring set; 1-5/64, 2-3/32, 1-1/4
1	Standard Set	FP-E323X30	30	Check piston grooving before supplying ring set; 1-5/64, 2-3/32, 1-1/4
1	Standard Set	FP-E323X40	40	Check piston grooving before supplying ring set; 1-5/64, 2-3/32, 1-1/4
1	Standard Set	FP-E323X60	60	Check piston grooving before supplying ring set; 1-5/64, 2-3/32, 1-1/4
1	Standard Set	FP-926X	STD	Check piston grooving before supplying ring set; 3-1/8, 1-1/4
4	Premium Single Cylinder Set	WE-323KC Std-20-30-40-60		Check piston grooving before supplying ring set; 1-5/64, 2-3/32, 1-1/4
4	Premium Single Cylinder Set	W-5039KX Std Only		Check piston grooving before supplying ring set; 3-1/8, 1-3/16
4	Standard Single Cylinder Set	WE-323X Std-20-30-40-60		Check piston grooving before supplying ring set; 1-5/64, 2-3/32, 1-1/4

22 *Loader* 3164G Eng. *Wheel Tractor* 3164G Eng.
2.7L 164 OHV L3, 4.0156" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-T20111		

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	FP-T20328		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Intake Gasket	FP-T23132		
1	Water Pump Mounting Gasket	FP-T20243		

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat Cover Gasket	FP-T20215		

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
3	Water Manifold Gasket	FP-T23002		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Block to End Plate Front Gskt	FP-R131794		

(continued on next page)

Loader **3164G Eng.** *Wheel Tractor* **3164G Eng.** **22**
2.7L 164 OHV L3, 4.0156" Bore **(cont.)**

ENGINE BLOCK & PARTS (cont.)

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	**FP-PG219CS**		Rubber one-piece rear main brg. seal incl.; Wear sleeve incl.

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3003**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300310**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300320**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300330**	*30*	w/Flanged thrust brg.

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
3	Sealing Ring	**FP-SLR2515**		Top sleeve seal; Rectangle

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
3	Pin Bushing	**FP-T23471**		1.1896" ID, 1.313" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
3	Rod Pair	**FP-RE27348**	*STD*	
3	Rod Pair	**FP-RE27349**	*10*	
3	Rod Pair	**FP-RE27358**	*20*	
3	Rod Pair	**FP-RE27364**	*30*	

Combine **3164D Eng.** *Loader* **3164D Eng.** *Power Unit* **JD164D, 3164D Engs.** *Wheel Tractor* **3164D Eng.** *Crawler Tractor* **3164D Eng.** *Loader Tractor* **3164D Engs.** *Dozer* **3164D Eng.** *Backhoe* **3164D Eng.** **23**
2.7L 164 OHV Diesel L3, 4.0156" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R75729**		Sheet metal cover
1	Valve Cover Gasket	**FP-T20111**		To Ser. No. 608,618
1	Head Gasket	**FP-R97356**		From Ser. No. 100,001; Manufactured after 1983
1	Head Gasket	**FP-R97356**		From Ser. No. 290,001 to Ser. No. 621,172; Manufactured 1974-83
1	Head Set	**FP-RE38850**		From Ser. No. 290,001 to Ser. No. 621,172; Manufactured 1974-83

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
3	Intake	**FP-R79623**	*STD*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
3	Intake	**FP-R79628**	*3*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
3	Intake	**FP-R79629**	*15*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
3	Intake	**FP-R79630**	*30*	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
3	Exhaust	**FP-R79624**	*STD*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
3	Exhaust	**FP-R79625**	*3*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
3	Exhaust	**FP-R79626**	*15*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
3	Exhaust	**FP-R79627**	*30*	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
3	Exhaust	**FP-R90692**	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
12	Keeper	**FP-41339**		1 groove; Square cut key groove
12	Keeper	**FP-T20077**		1 groove; Square cut key groove; Hardened
12	Keeper, Bulk	**VK-138B**		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
3	Exh.	**FP-R51734**	*STD*	
3	Int.	**FP-R73064**	*STD*	

(continued on next page)

23 (cont.) *Combine* **3164D Eng.** *Loader* **3164D Eng.** *Power Unit* **JD164D, 3164D Engs.** *Wheel Tractor* **3164D Eng.** *Crawler Tractor* **3164D Eng.** *Loader Tractor* **3164D Engs.** *Dozer* **3164D Eng.** *Backhoe* **3164D Eng.**
2.7L 164 OHV Diesel L3, 4.0156" Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
6	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-RE11410		Exh. & Int.
1	Bushing	FP-T26321		Lower
1	Bushing	FP-T20034		Upper
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover code 1101

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube codes 2901, 2902, 2903

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Motorola No. A12NJD453; 35 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. A12NJD604; Code 3102; 55 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. 8TA2009ES; Code 3104; 30 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola Nos. 8EM2009A, 8EM2009NB; 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Exhaust Manifold Gasket	FP-R90658		
1	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
6	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
3	Fuel Injector Nozzle	FP-AR89564		
3	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1602, 1603; 9.270MM X 13.600MM X 5.080MM
9	Washer	FP-T20055		Pump codes 1602, 1603; To Ser. No. 127,775
6	Washer Type Seal	FP-R51936		Leak-off & return line seals; w/Nozzle codes 1602, 1603
3	Washer Type Seal	FP-R48000		Lower; w/Nozzle marked 18742, 19762, 20500, 20631, 22042
3	Washer Type Seal	FP-R60746		Upper; w/Nozzle marked 20631, 22042

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Transfer pump
1	Fuel Transfer Pump Gasket	FP-R97350		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	FP-R94419		Pump codes 2001, 2002, 2004, 2005
1	Water Pump Repair/Rebuild Kit	FP-944840979		w/Pump housing marked R52009
1	Water Pump Repair/Rebuild Kit	FP-925740979		w/Pump housing marked R56787, R62902
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	FP-R97455		w/Pump housing marked R48997, R51039, R54051
1	Water Pump Housing Gasket	FP-R55405		w/Pump housing marked R55164
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked R48997, R51039, R54051, R55164, R55758, T29521
1	Water Intake Gasket	FP-T23132		
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R48997, R51039, R54051, R55164, T29521
1	Shaft & Bearing Assembly	FP-JD9448		w/Cast pulley; w/Pump housing marked R55164; To Ser. No. 368,052
1	Shaft & Bearing Assembly	FP-JD9257		w/Pump housing marked R48997, R51039, R54051, R55164, R55758, T29521

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-RE33705		Thermostat code 2204; 180 Deg.

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Combine **3164D Eng.** *Loader* **3164D Eng.** *Power Unit* **JD164D, 3164D Engs.** *Wheel Tractor* **3164D Eng.** *Crawler Tractor* **3164D Eng.** *Loader Tractor* **3164D Engs.** *Dozer* **3164D Eng.** *Backhoe* **3164D Eng.** **23 (cont.)**

2.7L 164 OHV Diesel L3, 4.0156" Bore

COOLING SYSTEM (cont.)

QTY	THERMOSTAT (cont.)	PART NO.	SIZE	DESCRIPTION
1	Thermostat Gasket	**FP-T20219**		Thermostat cover codes 2101, 2102; w/housing marked T20218
1	Thermostat Cover Gasket	**FP-T20215**		Thermostat cover codes 2101, 2102

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	**FP-R97351**		From Ser. No. 100,001; Manufactured after 1983
1	Flywheel Housing Gasket	**FP-R97351**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured from 1974-83
1	Oil Pan Gasket	**FP-R97341**		Exc. Alum. oil pan
1	Oil Pan Gasket Set	**FP-PG300PS**		From Ser. No. 100,001; Manufactured after 1983; Exc. Alum. oil pan; Incl. O-rings
1	Oil Pan Gasket Set	**FP-PG300PS**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83; Exc. sheet metal oil pan; Incl. O-rings
1	Block to End Plate Front Gskt	**FP-R131794**		

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	**FP-PG219CS**		Rubber one-piece rear main brg. seal incl.; Wear sleeve incl.
1	In-Frame Gasket Set	**FP-PG164S**		
1	Complete Overhaul Gasket Set	**FP-RE50978**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE50978WS**		Incl. crankshaft seals

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Washer	**FP-R105714**		Oil cooler; Modine Oil Cooler codes 5901, 5902
1	Rect. or Square Seal	**FP-R70956**		Cooler housing w/relief valve; Oil cooler codes 5901, 5902, 5903, 5904; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-AT18031**		

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft code 1301
1	Crankshaft Rear Seal	**FP-RE24959**		w/Flywheel housing codes 1402, 1404

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3003**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300310**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300320**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300330**	*30*	w/Flanged thrust brg.
3	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
3	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
3	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
3	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
4	Thrust Washer	**FP-R78598**	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	**FP-RE55343**		w/Pump housing marked R54615
1	O-Ring	**FP-R61871**		Oil pump inlet; w/Pump housing marked R54615
1	O-Ring	**FP-R74354**		Oil pump outlet tube; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1201, 1202, 1203

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
3	Liner w/o Sealing Ring	**FP-R116463**	*STD*	w/o Piston spray cooling; O-rings in block
3	Liner w/o Sealing Ring	**FP-T32343**	*STD*	From Ser. No. 178,601
3	Liner w/o Sealing Ring	**FP-R48636**	*STD*	To Ser. No. 178,600
3	Liner w/Sealing Rings	**FP-T32343WS**	*STD*	From Ser. No. 178,601
3	Liner w/Sealing Rings	**FP-AR51903**	*STD*	To Ser. No. 178,600; Incl. 2-FPR4863R (Rect., upper step & lower groove on sleeve) & 1-FPT32341 (Top groove on sleeve) sealing rings.
3	Cylinder Kit Complete	**FP-AR78041**	*STD*	w/Con. Rod marked R51727; From Ser. No. 179,602; O-Rings in block; Pin dia, 1.38"
3	Cylinder Kit Complete	**FP-AR71593**	*STD*	w/Con. Rod marked T20007, R81410; To Ser. No. 179,601; O-rings in block; Pin dia. 1.19"

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23 (cont.) *Combine* **3164D Eng.** *Loader* **3164D Eng.** *Power Unit* **JD164D, 3164D Engs.** *Wheel Tractor* **3164D Eng.** *Crawler Tractor* **3164D Eng.** *Loader Tractor* **3164D Engs.** *Dozer* **3164D Eng.** *Backhoe* **3164D Eng.**

2.7L 164 OHV Diesel L3, 4.0156" Bore

CYLINDER COMPONENTS (cont.)

QTY	LINERS (cont.)	PART NO.	SIZE	DESCRIPTION
3	Cylinder Kit Complete	FP-CK83108636	STD	w/Con. Rod marked T20007, R81410; To Ser. No. 179,601; O-rings on liner
3	Cyl. Liner Sealing Ring Kit	FP-AR71618		From Ser. No. 178,601
6	Sealing Ring, Liner	FP-R48637		To Ser. No. 178,600; Rectangle; Top & Bottom
3	Sealing Ring, Liner	FP-T32341		To Ser. No. 178,600; Round
3	Sealing Ring	FP-SLR2388		From Ser. No. 178,601; Round
3	Sealing Ring	FP-SLR2515		Top sleeve seal; Rectangle

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
3	Piston Body w/o Pin	FP-AR77762	STD	From Ser. No. 179,602
3	Piston Body w/o Pin	FP-AR78310	STD	To Ser. No. 179,601
3	Piston Kit w/Pin & Retainers	FP-AR77762WP	STD	From Ser. No. 179,602
3	Piston Kit w/Pin & Retainers	FP-AR78310WP	STD	To Ser. No. 179,601
3	Pin	FP-R125754		From Ser. No. 179,602; 1.38" pin dia.
3	Pin	FP-T26149		To Ser. No. 179,601
6	Piston Pin Retainer	FP-M41029		From Ser. No. 179,602; For 1.38" pin dia.
6	Piston Pin Retainer	FP-R51112		To Ser. No. 179,601
3	Pin Bushing	FP-R55647		w/Con. Rod marked R51727, R80034; 1.3765" ID, 1.500" OD, 1.570" O.A.L.
3	Pin Bushing	FP-T23471		w/Con. Rod marked R81410, T20007; 1.1896" ID, 1.313" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Con. Rod Bolt	FP-R80033		w/Con. Rod marked R80032, R80034, R81410, R105011, R113612; Torque-To-Yield bolt; Replacement recommended
6	Con. Rod Bolt	FP-R74194		w/Con. Rod marked T20007, R51727, R58979; Torque-To-Yield bolt; Replacement recommended
3	Rod Pair	FP-RE27348	STD	
3	Rod Pair	FP-RE27349	10	
3	Rod Pair	FP-RE27358	20	
3	Rod Pair	FP-RE27364	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
3	Ring Set Single Cylinder	FP-AR55759	STD	1-1/8, 1-3/32, 1-.1965 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-164LIFK		w/Con. Rod marked R51727; From Ser. No. 179,602; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	FP-164EORLIFK		w/Con. Rod marked T20007; O-rings on liner; To Ser. No. 179,601; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	FP-164MIFK		w/Con. Rod marked T20007; Pin dia. 1.19"; To Ser. No. 179,601; O-rings in block; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-164LOHK		w/Con. Rod marked R51727; Pin dia. 1.38"; From Ser. No. 179,602; Incl. front & rear seals; Crankshaft code 1301; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-164EORLOHK		w/Con. Rod marked T20007; O-rings on liner; To Ser. No. 179,601; Incl. front & rear seals; Crankshaft code 1301; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-164MOHK		w/Con. Rod marked T20007; Pin dia. 1.19"; To Ser. No. 179,601; O-rings in block; Incl. front & rear seals; Crankshaft code 1301; Incl. Torque-To-Yield con. rod bolts

24 *Combine* **165G Eng.** *Power Unit* **165G Eng.**

2.7L 165 OHV L4, 3.875" Bore

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PG115FS		

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-1251M	STD	

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-4344M	STD	

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Combine **165G Eng.** *Power Unit* **165G Eng.** **24**
2.7L 165 OHV L4, 3.875" Bore **(cont.)**

CRANKSHAFT/OIL PUMP (cont.)

QTY	MAIN BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-4344M10**	*10*	
1	Main Set	**FP-4344M20**	*20*	

CYLINDER COMPONENTS

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-2595A**	*STD*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A10**	*10*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A20**	*20*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A30**	*30*	A-Series aluminum bearings

Combine **165D Eng.** *Power Unit* **165D Eng.** *Wheel Tractor* **165D Eng.** **25**
2.7L 165 OHV Diesel L4, 3.875" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
16	Keeper	**VK-63**		2 groove; Round key groove

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-VS1430**		2.1250" Free Height

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
4	Valve Stem Seal	**ST-2001**		Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE
4	Valve Stem Seal Bulk	**ST-2001BC**		Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-1251M**	*STD*	

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-4145M**	*STD*	Early Engs.; w/full groove brgs.
1	Main Set	**FP-4145M10**	*10*	Early Engs.; w/full groove brgs.
1	Main Set	**FP-4145M20**	*20*	Early Engs.; w/full groove brgs.
1	Main Set	**FP-4145M30**	*30*	Early Engs.; w/full groove brgs.
1	Main Set	**FP-4345M**	*STD*	Late Engs.; w/half groove brgs.
1	Main Set	**FP-4345M10**	*10*	Late Engs.; w/half groove brgs.
1	Main Set	**FP-4345M20**	*20*	Late Engs.; w/half groove brgs.

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	**FP-2599Y20**		Early Engs.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-2595A**	*STD*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A10**	*10*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A20**	*20*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A30**	*30*	A-Series aluminum bearings

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
2	Premium Set	**FP-9259KX**	*STD*	Model 2010; 3-Ring piston; 2-3/32, 1-3/16 (2 cyl. set)
2	Premium Set	**FP-5832KX**	*STD*	Model 2010; 4-Ring piston; 3-3/32, 1-3/16 (2 cyl. set)
4	Premium Single Cylinder Set	**W-9259KX** Std Only		Model 2010; 3-Ring piston; 2-3/32, 1-3/16 (1 cyl. set)

Wheel Tractor **B Eng.** **26**
2.9L 175 OHV L2, 4.5" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Set	**FP-PG175HS**		Models B, BN, BW; From Ser. No. 96000

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	**FP-PG175FS**		Models B, BN, BW; From Ser. No. 96000

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26 (cont.) *Wheel Tractor* B Eng.
2.9L 175 OHV L2, 4.5" Bore

CYLINDER COMPONENTS

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	FP-2180CP	STD	w/Insert type brgs.
2	Rod Pair	FP-2180CP10	10	w/Insert type brgs.
2	Rod Pair	FP-2180CP20	20	w/Insert type brgs.

27 *Wheel Tractor* 3179D Eng. *Crawler Tractor* 3179D Eng. *Dozer* 3179D Eng.
2.9L 179 OHV Diesel L3 (Standard), 4.1875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R75729		Sheet metal cover; Rocker arm cover codes 1102, 1103; From Ser. No. 576,074
1	Head Gasket	FP-R97356		RePower Engs.; Cyl. head codes 5101, 5102
1	Head Set	FP-RE38850		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
3	Intake	FP-R79623	STD	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
3	Intake	FP-R79628	3	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
3	Intake	FP-R79629	15	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
3	Intake	FP-R79630	30	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
3	Exhaust	FP-R79624	STD	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
3	Exhaust	FP-R79625	3	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
3	Exhaust	FP-R79626	15	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
3	Exhaust	FP-R79627	30	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
12	Keeper	FP-41339		1 groove; Square cut key groove
12	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
12	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
3	Exh.	FP-R51734	STD	
3	Int.	FP-R73064	STD	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
6	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-RE11410		Exh. & Int.
1	Bushing	FP-T26321		Lower
1	Bushing	FP-T20034		Upper
1	Oil Filler Cap Gasket	FP-R80135		Oil filler neck codes 1201, 1204; Use w/O.E. filler neck No. R80137; L.H. Auxiliary drive
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover code 1103; Oil filler neck codes 1201, 1202, 1203, 1204, 1206; Use w/O.E. filler neck No. T23614

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube codes 2902, 2911, 2999

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Motorola components; Codes 3101, 3102, 3104, 3118; 12 Volt, 30 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Codes 3104, 3118; 24 Volt, 45 amp alternator; 12 Volt, 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Exhaust Manifold Gasket	FP-R90658		
1	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover

(continued on next page)

Wheel Tractor **3179D Eng.** *Crawler Tractor* **3179D Eng.** *Dozer* **3179D Eng.** **27**
2.9L 179 OHV Diesel L3 (Standard), 4.1875" Bore **(cont.)**

CAMSHAFT GROUP (cont.)

QTY	TIMING COVER (cont.)	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	**FP-R97454**		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
6	Lifter	**FP-T20073**		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
3	Fuel Injector Nozzle	**FP-AR89564**		
3	Fuel Injector Seal	**FP-R79605**		Fuel line connection; Nozzle marked 27333; 9.270MM X 13.600MM X 5.080MM
3	Fuel Injector Nut	**FP-R79604**		w/Injector marked 27333
2	Clamp	**FP-R34766**		Pump code 3707
6	Washer Type Seal	**FP-R51936**		Leak-off & return line seals; w/Nozzle marked 27333

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Fuel Transfer Pump Gasket	**FP-R97350**		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Repair/Rebuild Kit	**FP-944840979**		w/Pump housing marked R52009
1	Water Pump Housing Gasket	**FP-R55405**		w/Pump housing marked R55130, R55164; From Ser. No. 498,346; w/Pump housing marked R100812, R127918
1	Water Pump Housing Gasket	**FP-R55406**		w/Pump housing marked R55130, R55164; To Ser. No. 498,345
1	Water Pump Housing Gasket	**FP-R97455**		w/Pump housing marked R73604, R91724, R91810
1	Water Pump Mounting Gasket	**FP-T20243**		w/Pump housing marked R55130, R73604, R91810, R100812, R122337, R127918
1	Shaft & Bearing Assembly	**FP-JD9448**		w/Cast pulley; w/Pump housing marked R55164

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	**FP-AR61538**		Thermostat code 2208; 181 Deg.
1	Thermostat Gasket	**FP-T20219**		Thermostat housing codes 3901 marked R60256, T20218; Thermostat housing codes 3909, 3910; Thermostat cover codes 2101, 2104, 3914 marked R91165
1	Thermostat Cover Gasket	**FP-T20215**		Thermostat cover codes 2101, 2102; Thermostat housing codes 2101, 2204, 3914; w/housing marked R91165

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	**FP-R97351**		R.H.; Use w/Flywheel housing SAE 4; w/2 hole mounting
1	Oil Pan Gasket	**FP-R97341**		Exc. Alum. oil pan
1	Block to End Plate Front Gskt	**FP-R131794**		Front plate codes 3601, 3602, 3695

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	**FP-PG219CS**		Rubber one-piece rear main brg. seal incl.; Wear sleeve incl.
1	In-Frame Gasket Set	**FP-PG164S**		
1	Complete Overhaul Gasket Set	**FP-RE50978**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE50978WS**		Incl. crankshaft seals

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R119874**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Washer	**FP-R105714**		Oil cooler; Modine Oil Cooler codes 5904, 5906
1	Rect. or Square Seal	**FP-R70956**		Cooler housing w/relief valve; w/Behr cooler codes 5904, 5906; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-AT18031**		
1	Oil Seal Kit	**FP-SK67942**		RePower Engs.; Crankshaft codes 4701, 4703, 4704, 4705; Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		
1	O-Ring	**FP-H35244**		Crankshaft pulley; Pulley codes 1313, 1314, 1329; Crankshaft, Bearing codes 4701, 4702, 4704, 4705, 4710

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		RePower Engs.; Crankshaft codes 4701, 4702, 4710

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3003**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300310**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300320**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300330**	*30*	w/Flanged thrust brg.

(continued on next page)

27 (cont.) *Wheel Tractor* 3179D Eng. *Crawler Tractor* 3179D Eng. *Dozer* 3179D Eng.
2.9L 179 OHV Diesel L3 (Standard), 4.1875" Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	MAIN BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
3	Plain Main Brg.	FP-RE27352	STD	w/Flangeless thrust brg.
3	Plain Main Brg.	FP-RE27353	10	w/Flangeless thrust brg.
3	Plain Main Brg.	FP-RE27360	20	w/Flangeless thrust brg.
3	Plain Main Brg.	FP-RE27368	30	w/Flangeless thrust brg.
1	Flanged Main Brg.	FP-RE521350	STD	
1	Flanged Main Brg.	FP-RE526754	10	
1	Flanged Main Brg.	FP-RE527235	20	
1	Flanged Main Brg.	FP-RE527236	30	
3	Thrust Washer	FP-R78598	STD	Use w/Flangeless thrust brg.

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R74354		Oil pump outlet tube; Pump code 5001; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck codes 1201, 1202, 1203, 1206, 1299

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
3	Liner w/o Sealing Ring	FP-R116281		
3	Liner w/Sealing Rings	FP-RE500023		
3	Cylinder Kit Complete	FP-RE30250	STD	w/Con. Rod marked R51727, R80034
3	Cyl. Liner Sealing Ring Kit	FP-AR65507		
3	Sealing Ring, Liner	FP-R48767		Rectangle; Top
3	Sealing Ring	FP-SLR2520		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
3	Piston Body w/o Pin	FP-RE19282		
3	Piston Kit w/Pin & Retainers	FP-RE19282WP		
3	Pin	FP-R125754		1.38" pin dia.
6	Piston Pin Retainer	FP-M41029		For 1.38" pin dia.
3	Pin Bushing	FP-R55647		w/Con. Rod marked R51727, R80034; 1.3765" ID, 1.500" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Con. Rod Bolt	FP-R80033		w/Con. Rod marked R51727, R80032, R80034, R81410, R105011, R113612; Torque-To-Yield bolt; Replacement recommended
6	Con. Rod Bolt	FP-R74194		w/Con. Rod marked T20007, R51727, R58979; Torque-To-Yield bolt; Replacement recommended
3	Rod Pair	FP-RE27348	STD	
3	Rod Pair	FP-RE27349	10	
3	Rod Pair	FP-RE27358	20	
3	Rod Pair	FP-RE27364	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
3	Ring Set Single Cylinder	FP-RE507852	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
3	Ring Set Single Cylinder	FP-RE66820	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-179DIFK		w/Con. Rod marked R51727, R80034; Crankshaft codes 4701, 4703, 4704, 4705; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-179DOHK		w/Con. Rod marked R51727, R80034; RePower Engs.; Crankshaft codes 4701, 4703, 4704, 4705; Incl. front & rear seals; Incl. Torque-To-Yield con. rod bolts

28 *Wheel Tractor* 3179T Eng.
2.9L 179 OHV Turbo-Diesel L3 (Standard), 4.1875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R75729		Sheet metal cover; Rocker arm cover codes 1102, 1103; From Ser. No. 576,074
1	Head Gasket	FP-R97356		RePower Engs.; Cyl. head codes 5101, 5102
1	Head Set	FP-RE38850		RePower Engs.; Cyl. head codes 5101, 5102

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
3	Intake	FP-R83071	STD	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3720" Stem Dia., 5.1660" O.A.L.
3	Intake	FP-R89223	3	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3750" Stem Dia., 5.1660" O.A.L.
3	Intake	FP-R89224	15	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3870" Stem Dia., 5.1660" O.A.L.

(continued on next page)

Wheel Tractor **3179T Eng.** **28**
2.9L 179 OHV Turbo-Diesel L3 (Standard), 4.1875" Bore **(cont.)**

CYL. HEAD & PARTS (cont.)

QTY	VALVE (cont.)	PART NO.	SIZE	DESCRIPTION
3	Intake	FP-R79623	STD	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
3	Intake	FP-R79628	3	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
3	Intake	FP-R79629	15	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
3	Intake	FP-R79630	30	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
3	Exhaust	FP-R79624	STD	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
3	Exhaust	FP-R79625	3	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
3	Exhaust	FP-R79626	15	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
3	Exhaust	FP-R79627	30	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
12	Keeper	FP-41339		1 groove; Square cut key groove
12	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
12	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
3	Exh.	FP-R51734	STD	
3	Int.	FP-R73064	STD	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
6	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-RE11410		Exh. & Int.
1	Bushing	FP-T26321		Lower
1	Bushing	FP-T20034		Upper
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover code 1103; Oil filler neck codes 1201, 1202, 1203, 1204, 1206

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube codes 2902, 2911, 2999

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Motorola components; Codes 3104, 3118; 12 Volt, 30 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; 24 Volt, 45 amp alternator; 12 Volt, 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Exhaust Manifold Gasket	FP-R90658		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
6	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
3	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1602, 1603; Nozzle marked 26992; 9.270MM X 13.600MM X 5.080MM
3	Fuel Injector Nut	FP-R79604		w/Injector marked 26992
2	Clamp	FP-R34766		Pump code 3707
6	Washer Type Seal	FP-R51936		Leak-off & return line seals; w/Nozzle codes 1602, 1632; w/Nozzle marked 26992

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Fuel Transfer Pump Gasket	FP-R97350		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Housing Gasket	FP-R55405		w/Pump housing marked R55130, R55164, R100812, R127912

(continued on next page)

28 (cont.) *Wheel Tractor* 3179T Eng.
2.9L 179 OHV Turbo-Diesel L3 (Standard), 4.1875" Bore

COOLING SYSTEM (cont.)

QTY	WATER PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Water Pump Housing Gasket	FP-R97455		w/Pump housing marked R73604, R91724
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R55130, R73604, R91724, R91810, R100812, R122337, R127918
1	Shaft & Bearing Assembly	FP-JD9448		w/Cast pulley; w/Pump housing marked R55164

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-AR61538		Thermostat code 2208; 181 Deg.
1	Thermostat Gasket	FP-T20219		Thermostat housing codes 3901 marked R60256, T20218; Thermostat housing codes 3909, 3910; Thermostat cover codes 2101, 2104, 3914 marked R91165
1	Thermostat Cover Gasket	FP-T20215		Thermostat cover codes 2101, 2102; Thermostat housing codes 2101, 2204, 3914; w/housing marked R91165

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		R.H.; Use w/Flywheel housing SAE 4; w/2 hole mounting
1	Oil Pan Gasket	FP-R97341		Exc. Alum. oil pan
1	Block to End Plate Front Gskt	FP-R131794		Front plate codes 3601, 3602, 3695

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-PG219CS		Rubber one-piece rear main brg. seal incl.; Wear sleeve incl.
1	In-Frame Gasket Set	FP-PG164S		
1	Complete Overhaul Gasket Set	FP-RE50978		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE50978WS		Incl. crankshaft seals

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R105714		Oil cooler; Modine Oil Cooler codes 5904, 5906
1	Rect. or Square Seal	FP-R70956		Cooler housing w/relief valve; w/Behr cooler codes 5904, 5906; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-AT18031		
1	Oil Seal Kit	FP-SK67942		RePower Engs.; Crankshaft codes 4701, 4702, 4703, 4705, 4710; Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		
1	O-Ring	FP-H35244		Crankshaft pulley; Pulley codes 1313, 1314, 1329; Crankshaft, Bearing codes 4701, 4702, 4704, 4705, 4710

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		RePower Engs.; Crankshaft codes 4701, 4702, 4710

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3003	*STD*	w/Flanged thrust brg.
1	Main Set	FP-MBK300310	*10*	w/Flanged thrust brg.
1	Main Set	FP-MBK300320	*20*	w/Flanged thrust brg.
1	Main Set	FP-MBK300330	*30*	w/Flanged thrust brg.
3	Plain Main Brg.	FP-RE27352	*STD*	w/Flangeless thrust brg.
3	Plain Main Brg.	FP-RE27353	*10*	w/Flangeless thrust brg.
3	Plain Main Brg.	FP-RE27360	*20*	w/Flangeless thrust brg.
3	Plain Main Brg.	FP-RE27368	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	FP-RE521350	*STD*	
1	Flanged Main Brg.	FP-RE526754	*10*	
1	Flanged Main Brg.	FP-RE527235	*20*	
1	Flanged Main Brg.	FP-RE527236	*30*	
3	Thrust Washer	FP-R78598	*STD*	Use w/Flangeless thrust brg.

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R74354		Oil pump outlet tube; Pump codes 5001, 5002; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck codes 1201, 1202, 1203, 1206, 1299

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
3	Liner w/o Sealing Ring	FP-R116281		
3	Liner w/Sealing Rings	FP-RE500023		
3	Cylinder Kit Complete	FP-RE33115		w/Con. Rod marked R58979, R80032, R113612
3	Cyl. Liner Sealing Ring Kit	FP-AR65507		
3	Sealing Ring, Liner	FP-R48767		Rectangle; Top

(continued on next page)

Wheel Tractor **3179T Eng.** **28**
2.9L 179 OHV Turbo-Diesel L3 (Standard), 4.1875" Bore **(cont.)**

CYLINDER COMPONENTS (cont.)

QTY	LINERS (cont.)	PART NO.	SIZE	DESCRIPTION
3	Sealing Ring	FP-SLR2520		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
3	Piston Body w/o Pin	FP-RE48368		
3	Piston Kit w/Pin & Retainers	FP-RE48368WP		
3	Pin	FP-R124230		1.62" pin dia.
6	Piston Pin Retainer	FP-R54114		For 1.62" pin dia.
3	Pin Bushing	FP-R57451		w/Con. Rod marked R56187, R58979, R80032, R113612; Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Con. Rod Bolt	FP-R80033		w/Con. Rod marked R80032, R80034, R81410, R105011, R113612; Torque-To-Yield bolt; Replacement recommended
6	Con. Rod Bolt	FP-R74194		w/Con. Rod marked T20007, R51727, R58979; Torque-To-Yield bolt; Replacement recommended
3	Rod Pair	FP-RE27348	*STD*	
3	Rod Pair	FP-RE27349	*10*	
3	Rod Pair	FP-RE27358	*20*	
3	Rod Pair	FP-RE27364	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
3	Ring Set Single Cylinder	FP-RE507852	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
3	Ring Set Single Cylinder	FP-RE66820	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-179TIFK		w/Con. Rod marked R58979, R80032, R80034, R81410, R10511, R113612; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-179TOHK		w/Con. Rod marked R58979, R80032, R80034, R81410, R10511, R113612; Pin dia. 1.62"; RePower Engs.; Crankshaft codes 4701, 4702, 4703, 4705; Incl. front & rear seals; Incl. Torque-To-Yield con. rod bolts

Power Unit **3029D PowerTech Eng.** *Wheel Tractor* **3029D PowerTech Eng.** *Track Loader* **3029D PowerTech Eng.** **29**
2.9L 179.2 (2938cc) OHV Diesel L3 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	FP-R97356		Cyl. head codes 5104, 5105, 5106
1	Head Set	FP-RE38850		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
3	Intake	FP-R98062	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
3	Intake	FP-R97490	*15*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
3	Exhaust	FP-R90692	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
3	Exhaust	FP-R97492	*15*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
12	Keeper	FP-R91889		Exh. & Int.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
6	Spring	FP-R26125		Exh. & Int.; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-RE60005		Exh. & Int.
1	Oil Filler Cap Gasket	FP-T20328		Oil filler neck codes 1201, 1202, 1203, 1206

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	FP-RE31617		Exh. & Int.; Positive type

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Exhaust Manifold Gasket	FP-R90658		
1	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-R97454		Front cover
1	Timing Gear Cover Gasket	FP-R108654		Use w/R.H. side gear dr. timing gear cover

(continued on next page)

29 (cont.) *Power Unit* 3029D PowerTech Eng. *Wheel Tractor* 3029D PowerTech Eng. *Track Loader* 3029D PowerTech Eng.

2.9L 179.2 (2938cc) OHV Diesel L3 (PowerTech 2V), 106mm Bore

CAMSHAFT GROUP (cont.)

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
6	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
3	Fuel Injector Nozzle	FP-RE36935		w/Injector marked 28480
3	Fuel Injector Nut	FP-R79604		w/Injector marked 28480
3	FI Installation Kit	FP-RE65201		
6	Washer Type Seal	FP-R51936		Leak-off & return line seals; w/Nozzle marked 28480
3	Washer Type Seal	FP-R48000		Lower; w/Nozzle marked 28480, 28484
3	Washer Type Seal	FP-R60746		Upper; w/Nozzle marked 28480

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Repair/Rebuild Kit	FP-RE62658		Pump codes 2010, 2020, 2022, 2023; w/Pump housing marked R73604
1	Water Pump Housing Gasket	FP-R97455		w/Pump housing marked R73604
1	Water Pump Mounting Gasket	FP-T20243		w/H/D Pump housing marked R100812, R127918
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R48997, R55164, R73604, R110541

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat Cover Gasket	FP-T20215		Thermostat cover codes 2101, 2102
1	Therm. Hsg. - Water Mfld. Gsk	FP-R54641		Thermostat housing to cyl. head; To Ser. No. 205,211

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R97341		Exc. Alum. oil pan
1	Oil Pan Gasket Set	FP-PG300PS		Exc. Alum. oil pan; Incl. O-rings
1	Block to End Plate Front Gskt	FP-R131794		Front plate code 3604; R.H. side gear drive

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG164S		
1	Complete Overhaul Gasket Set	FP-RE50978		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE50978WS		Incl. crankshaft seals

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	FP-RE61767		Cooler codes 5904, 5906, 5908, 5914, 5920
1	Rect. or Square Seal	FP-R70956		Cooler housing w/relief valve; Oil cooler codes 5904, 5906, 5908, 5914, 5916; To Ser. No. 185,223; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-SK67942		Incl. front & rear seals; Crankshaft codes 4702, 4704, 4705, 4710; From Ser. No. 100,000

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		
1	O-Ring	FP-H35244		Crankshaft pulley; Pulley codes 1313, 1314, 1329

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		RePower Engs.; Crankshaft codes 4701, 4702, 4710

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
3	Plain Main Brg.	FP-RE27352	*STD*	w/Flangeless thrust brg.
3	Plain Main Brg.	FP-RE27353	*10*	w/Flangeless thrust brg.
3	Plain Main Brg.	FP-RE27360	*20*	w/Flangeless thrust brg.
3	Plain Main Brg.	FP-RE27368	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	FP-RE521350	*STD*	
1	Flanged Main Brg.	FP-RE526754	*10*	
1	Flanged Main Brg.	FP-RE527235	*20*	
1	Flanged Main Brg.	FP-RE527236	*30*	
4	Thrust Washer	FP-R78598	*STD*	Use w/Flangeless thrust brg.

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	FP-RE55343		w/Pump housing marked R54615
1	O-Ring	FP-R61871		Oil pump inlet; Pump codes 5001, 5002, 5005, 5007, 5012, 5016
1	O-Ring	FP-R74354		Oil pump outlet tube; Pump codes 5001, 5002, 5005, 5007, 5008, 5009, 5010, 5011, 5012, 5013, 5014, 5015, 5016; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck codes 1201, 1203, 1299

(continued on next page)

Power Unit **3029D PowerTech Eng.** *Wheel Tractor* **3029D PowerTech Eng.** *Track Loader* **3029D PowerTech Eng.** **(cont.)** **29**

2.9L 179.2 (2938cc) OHV Diesel L3 (PowerTech 2V), 106mm Bore

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
3	Liner w/o Sealing Ring	**FP-R116281**		
3	Liner w/Sealing Rings	**FP-RE500023**		
3	Cylinder Kit Complete	**FP-RE66968 ***	*STD*	From Ser. No. 252768; Piston numbers RE61467, RE500210
3	Cylinder Kit Complete	**FP-RE48721 ***	*STD*	To Ser. No. 252767
3	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
3	Piston Kit w/Pin & Retainers	**FP-RE61467WP ***	*STD*	From Ser. No. 252768

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Con. Rod Bolt	**FP-R80033**		w/Con. Rod marked R121092; Torque-To-Yield bolt; Replacement recommended
3	Rod Pair	**FP-RE27348**	*STD*	w/Con. Rod marked R121092
3	Rod Pair	**FP-RE27349**	*10*	w/Con. Rod marked R121092
3	Rod Pair	**FP-RE27358**	*20*	w/Con. Rod marked R121092
3	Rod Pair	**FP-RE27364**	*30*	w/Con. Rod marked R121092

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
3	Ring Set Single Cylinder	**FP-RE66271**	*STD*	From Ser. No. 252,768; Piston codes RE61467, RE61270
3	Ring Set Single Cylinder	**FP-RE507852**	*STD*	To Ser. No. 252,767; Piston codes RE45323, RE40557; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
3	Ring Set Single Cylinder	**FP-RE66820**	*STD*	To Ser. No. 252,767; Piston codes RE45323, RE40557; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

Power Unit **3029T PowerTech Eng.** *Wheel Tractor* **3029T PowerTech Eng.** *Track Loader* **3029T PowerTech Eng.** **30**

2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	**FP-R97356**		Cyl. head codes 5104, 5105, 5106
1	Head Set	**FP-RE38850**		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
3	Intake	**FP-R98062**	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
3	Intake	**FP-R97490**	*15*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
3	Exhaust	**FP-R90692**	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
3	Exhaust	**FP-R97492**	*15*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
12	Keeper	**FP-R91889**		Exh. & Int.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
6	Spring	**FP-R26125**		Exh. & Int.; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	**FP-RE60005**		Exh. & Int.
1	Oil Filler Cap Gasket	**FP-T20328**		Oil filler neck codes 1201, 1202, 1203, 1206

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	**FP-RE31617**		Exh. & Int.; Positive type

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Exhaust Manifold Gasket	**FP-R90658**		
1	Air Intake Gasket	**FP-R81275**		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	**FP-R97454**		Front cover
1	Timing Gear Cover Gasket	**FP-R108654**		Use w/R.H. side gear dr. timing gear cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
6	Lifter	**FP-T20073**		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
3	Fuel Injector Nozzle	**FP-RE36935**		w/Injector marked 28484
3	Fuel Injector Nozzle	**FP-RE48786**		w/Injector marked 29279
3	Fuel Injector Nut	**FP-R79604**		w/Injector marked 28484, 29279

(continued on next page)

30 (cont.) *Power Unit* 3029T PowerTech Eng. *Wheel Tractor* 3029T PowerTech Eng. *Track Loader* 3029T PowerTech Eng.

2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 (PowerTech 2V), 106mm Bore

FUEL SYSTEM & PARTS (cont.)

QTY	FUEL INJECTION (cont.)	PART NO.	SIZE	DESCRIPTION
3	FI Installation Kit	FP-RE65201		
6	Washer Type Seal	FP-R51936		Leak-off & return line seals; w/Nozzle marked 28480, 28484, 29279
3	Washer Type Seal	FP-R48000		Lower; w/Nozzle marked 28480, 28484
3	Washer Type Seal	FP-R60746		Upper; w/Nozzle marked 28480

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Repair/Rebuild Kit	FP-RE62658		Pump codes 2010, 2020, 2022, 2023; w/Pump housing marked R73604
1	Water Pump Housing Gasket	FP-R97455		w/Pump housing marked R73604
1	Water Pump Mounting Gasket	FP-T20243		w/H/D Pump housing marked R100812, R127918
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R48997, R55164, R73604, R110541

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat Cover Gasket	FP-T20215		Thermostat cover codes 2101, 2102
1	Therm. Hsg. - Water Mfld. Gsk	FP-R54641		Thermostat housing to cyl. head; To Ser. No. 205,211

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R97341		Exc. Alum. oil pan
1	Oil Pan Gasket Set	FP-PG300PS		Exc. Alum. oil pan; Incl. O-rings
1	Block to End Plate Front Gskt	FP-R131794		Front plate code 3604; R.H. side gear drive

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG164S		
1	Complete Overhaul Gasket Set	FP-RE50978		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE50978WS		Incl. crankshaft seals

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	FP-RE61767		Cooler codes 5904, 5906, 5908, 5914, 5920
1	Rect. or Square Seal	FP-R70956		Cooler housing w/relief valve; Oil cooler codes 5904, 5906, 5908, 5914, 5916; To Ser. No. 185,223; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-SK67942		Incl. front & rear seals; Crankshaft codes 4702, 4704, 4705, 4710; From Ser. No. 100,000

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		
1	O-Ring	FP-H35244		Crankshaft pulley; Pulley codes 1313, 1314, 1329

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		RePower Engs.; Crankshaft codes 4701, 4702, 4710

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
3	Plain Main Brg.	FP-RE27352	*STD*	w/Flangeless thrust brg.
3	Plain Main Brg.	FP-RE27353	*10*	w/Flangeless thrust brg.
3	Plain Main Brg.	FP-RE27360	*20*	w/Flangeless thrust brg.
3	Plain Main Brg.	FP-RE27368	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	FP-RE521350	*STD*	
1	Flanged Main Brg.	FP-RE526754	*10*	
1	Flanged Main Brg.	FP-RE527235	*20*	
1	Flanged Main Brg.	FP-RE527236	*30*	
4	Thrust Washer	FP-R78598	*STD*	Use w/Flangeless thrust brg.

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	FP-RE55343		w/Pump housing marked R54615
1	O-Ring	FP-R61871		Oil pump inlet; Pump codes 5001, 5002, 5005, 5007, 5012, 5016
1	O-Ring	FP-R74354		Oil pump outlet tube; Pump codes 5001, 5002, 5005, 5007, 5008, 5009, 5010, 5011, 5012, 5013, 5014, 5015, 5016; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck codes 1201, 1203, 1299

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
3	Liner w/o Sealing Ring	FP-R116281		
3	Liner w/Sealing Rings	FP-RE500023		
3	Cylinder Kit Complete	FP-RE67426 *	*STD*	From Ser. No. 258847

(continued on next page)

* New Item — Check For Availability

Power Unit **3029T PowerTech Eng.** *Wheel Tractor* **3029T PowerTech Eng.** *Track Loader* **3029T PowerTech Eng.** **(cont.)** **30**

2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 (PowerTech 2V), 106mm Bore

CYLINDER COMPONENTS (cont.)

QTY	LINERS (cont.)	PART NO.	SIZE	DESCRIPTION
3	Cylinder Kit Complete	**FP-RE48724 ***	*STD*	To Ser. No. 258846
3	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Pin Retainer	**FP-R54114**		For 1.62" pin dia.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Con. Rod Bolt	**FP-R80033**		w/Con. Rod marked R105011; Torque-To-Yield bolt; Replacement recommended
3	Rod Pair	**FP-RE27348**	*STD*	w/Con. Rod marked R105011
3	Rod Pair	**FP-RE27349**	*10*	w/Con. Rod marked R105011
3	Rod Pair	**FP-RE27358**	*20*	w/Con. Rod marked R105011
3	Rod Pair	**FP-RE27364**	*30*	w/Con. Rod marked R105011

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
3	Ring Set Single Cylinder	**FP-RE66271**	*STD*	From Ser. No. 258,847; Piston codes RE61467, RE61270
3	Ring Set Single Cylinder	**FP-RE507852**	*STD*	To Ser. No. 258,846; Piston codes RE45323, RE40557; Piston & Liner code 4808; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
3	Ring Set Single Cylinder	**FP-RE66820**	*STD*	To Ser. No. 258,846; Piston codes RE45323, RE40557; Piston & Liner code 4808; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

Combine **4180G Eng.** *Forklift* **4180G Eng.** *Power Unit* **JD180G, 4180G Engs.** *Wheel Tractor* **4180G Eng.** *Windrower* **4180G Eng.** *Crawler Tractor* **4180G Eng.** *Loader Tractor* **4180G Eng.** *Skidder* **4180G Eng.** **31**

2.9L 180 OHV L4, 3.8594" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	**FP-R98461**		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
16	Keeper	**FP-41339**		1 groove; Square cut key groove
16	Keeper	**FP-T20077**		1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	**VK-138B**		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-R26125**		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	**FP-T20328**		

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
4	Valve Stem Seal	**FP-R87627**		Exh.; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R56463**		Rocker cover breather tube

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	**FP-JD9449**		Front; Motorola No. A12NJD453; To Ser. No. 98,605
1	Ball Brg.	**FP-JD9449**		Front; Motorola No. A12NJD604; From Ser. No. 98,606
1	Ball Brg.	**FP-JD9449**		Front; Motorola Nos. TA12NJD400, 8TA2009ES
2	Ball Brg.	**FP-JD9449**		Front & Rear; 65 amp alternator

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	**FP-T20073**		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	**FP-R40979**		w/Pump housing marked R56787, R62902
1	Water Pump Impeller	**FP-R94419**		From Ser. No. 131,252
1	Water Pump Repair/Rebuild Kit	**FP-925740979**		w/Pump housing marked R56787, R62902
1	Shaft & Bearing Assembly	**FP-JD9257**		

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	**FP-RE33705**		180 Deg.
1	Thermostat Cover Gasket	**FP-T20215**		

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
3	Water Manifold Gasket	**FP-T23002**		

(continued on next page)

31 (cont.) *Combine* **4180G Eng.** *Forklift* **4180G Eng.** *Power Unit* **JD180G, 4180G Engs.** *Wheel Tractor* **4180G Eng.** *Windrower* **4180G Eng.** *Crawler Tractor* **4180G Eng.** *Loader Tractor* **4180G Eng.** *Skidder* **4180G Eng.**

2.9L 180 OHV L4, 3.8594" Bore

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	**FP-R97351**		
1	Oil Pan Gasket	**FP-R119360**		w/Block marked R72973; w/Cast iron oil pan
1	Block to End Plate Front Gskt	**FP-R131794**		

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	**FP-PG219CS**		Rubber one-piece rear main brg. seal incl.; 5.756" seal OD; Wear sleeve incl.
1	Kit Gasket Set	**FP-2601386**		Compl.; Rear main brg. seal incl.; Wear sleeve incl.
1	Kit Gasket Set	**260-1386**		Compl.; Rear main brg. seal incl.; Wear sleeve incl.

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	**FP-R57160S**		

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3002**	*STD*	
1	Main Set	**FP-MBK300210**	*10*	
1	Main Set	**FP-MBK300220**	*20*	
1	Main Set	**FP-MBK300230**	*30*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil pump inlet; From Ser. No. 240,554
1	O-Ring	**FP-R74354**		Oil pump outlet tube; w/Pump housing marked R54615, T20078

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Sleeve Assy.	**FP-SL2689**		Early Model JD400; Early Model JD450; Early Model JD480; Model JD440 To Ser. No. 49,999; Three O-rings used; Two grooves on sleeve; Contains piston to replace O.E. No. T23504T
4	Sleeve Assy.	**FP-SL2688**		Model 2020 From Ser. No. 159,927; Model 2510 w/Block marked T32349; Model JD180G; Late Models JD400, JD450, JD480; Three O-rings used; No grooves on sleeve; Contains piston to replace O.E. No. T23504T
4	Sleeve Assy.	**FP-SL2689**		Model 2020 To Ser. No. 159,926; Three O-rings used; Two grooves on sleeve; Contains piston to replace O.E. No. T23504T
4	Sleeve Assy.	**FP-SL2689**		Model 2510 w/Block marked T23405, T24960, T26932; Three O-rings used; Two grooves on sleeve; Contains piston to replace O.E. No. T23504T

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	**FP-2599Y20**		

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-2595A**	*STD*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A10**	*10*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A20**	*20*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A30**	*30*	A-Series aluminum bearings

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	**FP-AR70633**	*STD*	2-3/32, 1-.196 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	**FP-180GEOHK**		Model JD440 To Ser. No. 49,999
1	Complete Overhaul Kit	**FP-180GLOHK**		Model 2020 From Ser. No. 159,927; Model 2510 w/Block marked T32349; Model JD180G; Late Model JD400, JD450, JD480
1	Complete Overhaul Kit	**FP-180GEOHK**		Model 2020 To Ser. No. 159,926
1	Complete Overhaul Kit	**FP-180GEOHK**		Model 2510 w/Block marked T23405, T24960, T26932; Early Model JD400; Early Model JD450; Early Model JD480

Crawler Tractor 4180D Eng. 32
2.9L 180 OHV Diesel L4, 3.8594" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-T20075		

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
1	Air Intake Gasket	FP-R81275		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
3	Washer Type Seal	FP-R48000		Lower; w/Nozzle marked 22202

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Intake Gasket	FP-T23132		

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-PG219CS		Rubber one-piece rear main brg. seal incl.; 5.756" seal OD; Wear sleeve incl.

Combine JX4C3 Eng. 33
3.1L 188 L-HEAD L4, 3.75" Bore (Hercules Eng.)

CYL. HEAD & PARTS

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	FP-VG414		.3745" ID, 2.3600" O.A.L.

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-1090M		

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	FP-1424X		Drilled rod type bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-1420CP	*STD*	w/1.9870-1.9880" std. shaft size
4	Rod Pair	FP-1420CP10	*10*	w/1.9870-1.9880" std. shaft size
4	Rod Pair	FP-1420CP40	*40*	w/1.9870-1.9880" std. shaft size

Wheel Tractor B, 50, 520, 530 Engs. 34
3.1L 190 OHV L2, 4.6875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Set	FP-PG175HS		Model 50; From Ser. No. 5000001 to 5015950
1	Head Set	FP-PG175HS		Models B, BN, BW; From Ser. No. 96000

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
8	Keeper	FP-B367R		2 groove
8	Keeper	VK-66R		2 groove; Hardened

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PG175FS		Model 50; From Ser. No. 5000001 to 5015950
1	Complete Overhaul Gasket Set	FP-PG175FS		Models B, BN, BW; From Ser. No. 96000

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
2	Piston Kit w/Pin & Retainers	FP-A1239P	*STD*	Models B, BN, BW; From Ser. No. 201,000
2	Piston Kit w/Pin & Retainers	FP-A1239P45	*45*	Models B, BN, BW; From Ser. No. 201,000
2	Piston Kit w/Pin & Retainers	FP-A1239P90	*90*	Models B, BN, BW; From Ser. No. 201,000
2	Piston Kit w/Pin & Retainers	FP-A1239P125	*125*	Models B, BN, BW; From Ser. No. 201,000
2	Piston Kit w/Pin & Retainers	FP-A1239P	*STD*	50 Series Engs.
2	Piston Kit w/Pin & Retainers	FP-A1239P45	*45*	50 Series Engs.
2	Piston Kit w/Pin & Retainers	FP-A1239P90	*90*	50 Series Engs.
2	Piston Kit w/Pin & Retainers	FP-A1239P125	*125*	50 Series Engs.
2	Piston Kit w/Pin & Retainers	FP-A1278P	*STD*	520, 530 Series Engs.

(continued on next page)

34 (cont.) *Wheel Tractor* B, 50, 520, 530 Engs.
3.1L 190 OHV L2, 4.6875" Bore

CYLINDER COMPONENTS (cont.)

QTY	PISTONS (cont.)	PART NO.	SIZE	DESCRIPTION
2	Piston Kit w/Pin & Retainers	FP-A1278P45	45	520, 530 Series Engs.
2	Piston Kit w/Pin & Retainers	FP-A1278P90	90	520, 530 Series Engs.
2	Piston Kit w/Pin & Retainers	FP-A1278P125	125	520, 530 Series Engs.
2	Pin Bushing	FP-9759		w/1.750" ID, 1.895" OD, 2.500" O.A.L.
2	Pin Bushing	9759 +		w/1.750" ID, 1.895" OD, 2.500" O.A.L.; When depleted use FP-9759

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	FP-2180CP	STD	w/Insert type brgs.
2	Rod Pair	FP-2180CP10	10	w/Insert type brgs.
2	Rod Pair	FP-2180CP20	20	w/Insert type brgs.
2	Rod Pair	FP-2755CP	STD	520, 530 Series Engs.

35 *Wheel Tractor* 50, 520 Engs. (Distillate)
3.1L 190 OHV Distillate L2, 4.6875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Set	FP-PG175HS		Model 50; From Ser. No. 5000001 to 5015950
1	Head Set	FP-PG175HS		Models B, BN, BW; From Ser. No. 96000

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
8	Keeper	FP-B367R		2 groove
8	Keeper	VK-66R		2 groove; Hardened

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PG175FS		Model 50; From Ser. No. 5000001 to 5015950
1	Complete Overhaul Gasket Set	FP-PG175FS		Models B, BN, BW; From Ser. No. 96000

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
2	Piston Kit w/Pin & Retainers	FP-A1239P	STD	Models B, BN, BW; From Ser. No. 201,000
2	Piston Kit w/Pin & Retainers	FP-A1239P45	45	Models B, BN, BW; From Ser. No. 201,000
2	Piston Kit w/Pin & Retainers	FP-A1239P90	90	Models B, BN, BW; From Ser. No. 201,000
2	Piston Kit w/Pin & Retainers	FP-A1239P125	125	Models B, BN, BW; From Ser. No. 201,000
2	Piston Kit w/Pin & Retainers	FP-A1239P	STD	50 Series Engs.
2	Piston Kit w/Pin & Retainers	FP-A1239P45	45	50 Series Engs.
2	Piston Kit w/Pin & Retainers	FP-A1239P90	90	50 Series Engs.
2	Piston Kit w/Pin & Retainers	FP-A1239P125	125	50 Series Engs.
2	Piston Kit w/Pin & Retainers	FP-A1278P	STD	520, 530 Series Engs.
2	Piston Kit w/Pin & Retainers	FP-A1278P45	45	520, 530 Series Engs.
2	Piston Kit w/Pin & Retainers	FP-A1278P90	90	520, 530 Series Engs.
2	Piston Kit w/Pin & Retainers	FP-A1278P125	125	520, 530 Series Engs.
2	Pin Bushing	FP-9759		w/1.750" ID, 1.895" OD, 2.500" O.A.L.
2	Pin Bushing	9759 +		w/1.750" ID, 1.895" OD, 2.500" O.A.L.; When depleted use FP-9759

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	FP-2180CP	STD	w/Insert type brgs.
2	Rod Pair	FP-2180CP10	10	w/Insert type brgs.
2	Rod Pair	FP-2180CP20	20	w/Insert type brgs.
2	Rod Pair	FP-2755CP	STD	520, 530 Series Engs.

36 *Loader* 201G Eng. *Wheel Tractor* 201G Eng.
3.3L 201 OHV L4, 4" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-V1635		1.6880" Head Dia., .3720" Stem Dia., 5.7000" O.A.L.
4	Exhaust	FP-V1634		1.5000" Head Dia., .3720" Stem Dia., 5.7310" O.A.L.
16	Keeper	FP-B367R		2 groove
16	Keeper	VK-66R		2 groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Int.	FP-R78702	STD	1.7550" OD, 1.5000" ID, .2160" Depth

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	FP-VG606		.3750" ID, 2.9400" O.A.L.

(continued on next page)

+ Superseded Part Number

Loader **201G Eng.** *Wheel Tractor* **201G Eng.** **36**
3.3L 201 OHV L4, 4" Bore **(cont.)**

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-3R46903**	*STD*	
3	Cam Brg.	**FP-R46903**	*STD*	

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE22764**		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3001**	*STD*	w/Flange brg.; w/Block marked R26150, R26160
1	Main Set	**FP-MBK300110**	*10*	w/Flange brg.; w/Block marked R26150, R26160
1	Main Set	**FP-MBK300120**	*20*	w/Flange brg.; w/Block marked R26150, R26160
1	Main Set	**FP-MBK300130**	*30*	w/Flange brg.; w/Block marked R26150, R26160
1	Main Set	**FP-MBK300**	*STD*	w/Thrust washer; Use in blocks marked R40910, R40920, R46350, R46340, R49540
1	Main Set	**FP-MBK30010**	*10*	w/Thrust washer; Use in blocks marked R40910, R40920, R46350, R46340, R49540
1	Main Set	**FP-MBK30020**	*20*	w/Thrust washer; Use in blocks marked R40910, R40920, R46350, R46340, R49540
1	Main Set	**FP-MBK30030**	*30*	w/Thrust washer; Use in blocks marked R40910, R40920, R46350, R46340, R49540

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Sleeve Assy.	**FP-SL2084**		Contains piston to replace O.E. No. R26089R; O-rings in block

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	**FP-3129YA20**		1.252" ID, 1.3785" OD, 1.510" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-AR45723**	*STD*	
4	Rod Pair	**FP-AR46396**	*10*	
4	Rod Pair	**FP-AR46397**	*20*	
4	Rod Pair	**FP-AR46398**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
2	Premium Set	**FP-5834KX**	*STD*	3-3/32, 2-1/4 (2 cyl. set)
4	Premium Single Cylinder Set	**W-5834KX** Std Only		3-3/32, 2-1/4 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Tractor Overhaul Kit	**FP-KST2084A**		w/Block marked R26150, R26160; Model 3010; w/Flange brg.

Combine **4202G Eng.** *Power Unit* **JD202G, 4202G Engs.** *Wheel Tractor* **4202G Eng.** *Crawler Tractor* **4202G Eng.** *Loader Tractor* **4202G Eng.** **37**
3.3L 202 OHV L4, 3.8594" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
16	Keeper	**FP-41339**		1 groove; Square cut key groove
16	Keeper	**FP-T20077**		1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	**VK-138B**		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-R26125**		2.1200" Free Height

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
4	Valve Stem Seal	**FP-R87627**		Exh.; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R56463**		Rocker cover breather tube

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	**FP-T20073**		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Repair/Rebuild Kit	**FP-925740979**		w/Pump housing marked R56787, R62902
1	Water Pump Housing Gasket	**FP-R97455**		w/Pump housing marked R48992

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37 (cont.) *Combine* 4202G Eng. *Power Unit* JD202G, 4202G Engs. *Wheel Tractor* 4202G Eng. *Crawler Tractor* 4202G Eng. *Loader Tractor* 4202G Eng.

3.3L 202 OHV L4, 3.8594" Bore

COOLING SYSTEM (cont.)

QTY	WATER PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Shaft & Bearing Assembly	FP-JD9257		w/Pump housing marked R48992, R55758

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat Cover Gasket	FP-T20215		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R119360		w/Block marked R72973; w/Cast iron oil pan

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-PG219CS		Rubber one-piece rear main brg. seal incl.; 5.756" seal OD; Wear sleeve incl.
1	Kit Gasket Set	FP-2601386		Compl.; Rear main brg. seal incl.; Wear sleeve incl.
1	Kit Gasket Set	260-1386		Compl.; Rear main brg. seal incl.; Wear sleeve incl.

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	FP-R57160S		

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-SK67942		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3002	STD	
1	Main Set	FP-MBK300210	10	
1	Main Set	FP-MBK300220	20	
1	Main Set	FP-MBK300230	30	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R61871		Oil pump inlet; From Ser. No. 240,554

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/Sealing Rings	FP-T32340WS	STD	Model 2520 From Ser. No. 157,354
4	Liner w/Sealing Rings	FP-AR51902	STD	Model 2520 To Ser. No.157,353
4	Liner w/Sealing Rings	FP-T32340WS	STD	Model 3300 To Ser. No. 218,730
4	Liner w/Sealing Rings	FP-T32340WS	STD	Models JD202G, JD410 To Ser. No. 192,001

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-2595A	STD	A-Series aluminum bearings
4	Rod Pair	FP-2595A10	10	A-Series aluminum bearings
4	Rod Pair	FP-2595A20	20	A-Series aluminum bearings
4	Rod Pair	FP-2595A30	30	A-Series aluminum bearings

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-AR70633	STD	2-3/32, 1-.196 (1 cyl. set)

38 *Forklift* 4202D Eng. *Loader* 4202D Eng. *Power Unit* JD202D, 4202D Engs. *Wheel Tractor* 4202D Eng. *Windrower* 4202D Eng. *Crawler Tractor* 4202D Eng. *Loader Tractor* 4202D Eng. *Skidder* 4202D Eng. *Dozer* 4202D Eng. *Backhoe* 4202D Eng.

3.3L 202 OHV Diesel L4, 3.8594" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	FP-R98461		
1	Head Set	FP-RE38847		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R79623	STD	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79628	3	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79629	15	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79630	30	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.

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Forklift **4202D Eng.** *Loader* **4202D Eng.** *Power Unit* **JD202D, 4202D Engs.** *Wheel Tractor* **4202D Eng.** *Windrower* **4202D Eng.** *Crawler Tractor* **4202D Eng.** *Loader Tractor* **4202D Eng.** *Skidder* **4202D Eng.** *Dozer* **4202D Eng.** *Backhoe* **4202D Eng.**
3.3L 202 OHV Diesel L4, 3.8594" Bore

38 (cont.)

CYL. HEAD & PARTS (cont.)

QTY	VALVE (cont.)	PART NO.	SIZE	DESCRIPTION
4	Exhaust	FP-R79624	STD	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79625	3	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79626	15	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79627	30	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
16	Keeper	FP-41339		1 groove; Square cut key groove
16	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	FP-R51734	STD	
4	Int.	FP-R73064	STD	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
4	Rotocap	FP-RE11410		Exh. & Int.
1	Bushing	FP-T26321		Lower
1	Bushing	FP-T20034		Upper

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-R87627		O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Motorola No. A12NJD453; To Ser. No. 98,605
1	Ball Brg.	FP-JD9449		Front; Motorola No. A12NJD604; From Ser. No. 98,606
2	Ball Brg.	FP-JD9449		Front & Rear; 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
4	Exhaust Manifold Gasket	FP-R90658		
1	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
4	Fuel Injector Nozzle	FP-AR89564		
1	Clamp	FP-R34766		To Ser. No. 106,891
4	Washer Type Seal	FP-R48000		Lower; w/Nozzle marked 16422, 17574, 17579, 18457, 19762, 22002
4	Washer Type Seal	FP-R60746		Upper; w/Nozzle marked 19762, 22202

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Transfer pump
1	Fuel Transfer Pump Gasket	FP-R97350		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Repair/Rebuild Kit	FP-925740979		w/Pump housing marked R56787, R62902
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	FP-R97455		w/Pump housing marked R48992, R51039

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-RE33705		180 Deg.
1	Thermostat Gasket	FP-T20219		Thermostat housing marked R60256

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38 (cont.) *Forklift* **4202D Eng.** *Loader* **4202D Eng.** *Power Unit* **JD202D, 4202D Engs.** *Wheel Tractor* **4202D Eng.** *Windrower* **4202D Eng.** *Crawler Tractor* **4202D Eng.** *Loader Tractor* **4202D Eng.** *Skidder* **4202D Eng.** *Dozer* **4202D Eng.** *Backhoe* **4202D Eng.**
3.3L 202 OHV Diesel L4, 3.8594" Bore

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		
1	Oil Pan Gasket	FP-R119360		w/Block marked R72973; w/Cast iron oil pan
1	Oil Pan Gasket	FP-R97342		w/Stamped Steel Pan
1	Block to End Plate Front Gskt	FP-R131794		

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-PG219CS		Rubber one-piece rear main brg. seal incl.; 5.756" seal OD; Wear sleeve incl.
1	In-Frame Gasket Set	FP-PG202S		
1	Complete Overhaul Gasket Set	FP-RE38558		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE38558WS		Incl. crankshaft seals

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	FP-R57160S		
6	Balance Shaft Bearing	FP-R57160		

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-AT18030		
1	Oil Seal Kit	FP-SK67942		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-SK67942		Incl. front & rear seals
1	Crankshaft Rear Seal	FP-RE24959		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3004	STD	w/Flanged thrust brg.
1	Main Set	FP-MBK300410	10	w/Flanged thrust brg.
1	Main Set	FP-MBK300420	20	w/Flanged thrust brg.
1	Main Set	FP-MBK300430	30	w/Flanged thrust brg.
4	Plain Main Brg.	FP-RE27352	STD	w/Flangeless thrust brg.
4	Plain Main Brg.	FP-RE27353	10	w/Flangeless thrust brg.
4	Plain Main Brg.	FP-RE27360	20	w/Flangeless thrust brg.
4	Plain Main Brg.	FP-RE27368	30	w/Flangeless thrust brg.
1	Flanged Main Brg.	FP-RE521350	STD	
1	Flanged Main Brg.	FP-RE526754	10	
1	Flanged Main Brg.	FP-RE527235	20	
1	Flanged Main Brg.	FP-RE527236	30	
4	Thrust Washer	FP-R78598	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R74354		Oil pump outlet tube; w/Pump housing marked R54615, T20078

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	FP-T32340	STD	From Ser. No. 158,258; O-Rings in block
4	Liner w/o Sealing Ring	FP-R48635	STD	To Ser. No. 158,257; O-Rings on liner
4	Liner w/Sealing Rings	FP-T32340WS	STD	From Ser. No. 158,258
4	Liner w/Sealing Rings	FP-AR51902	STD	To Ser. No. 158,257
4	Cylinder Kit Complete	FP-AR71591		w/Con. Rod marked T20007, R81410; From Ser. No. 158,258; Contains FP-T32340-WS liner; O-rings in block
4	Cylinder Kit Complete	FP-CK34818635	STD	w/Con. Rod marked T20007, R81410; To Ser. No. 158,257; Contains FP-AR51902 liner; O-rings on liner
4	Cyl. Liner Sealing Ring Kit	FP-AR71617		From Ser. No. 158,258
4	Sealing Ring, Liner	FP-R48767		From Ser. No. 158,258; Rectangle; Top
4	Sealing Ring, Liner	FP-R48637		To Ser. No. 158,257; Rectangle; Top & Bottom
4	Sealing Ring, Liner	FP-R48638		To Ser. No. 158,257; Round
4	Sealing Ring	FP-SLR2497		From Ser. No. 158,258; Round; Bottom; In block

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-T23481		
4	Piston Kit w/Pin & Retainers	FP-T23481WP		
4	Pin	FP-T23482		
8	Piston Pin Retainer	FP-R51112		
4	Pin Bushing	FP-T23471		w/Con. Rod marked R81410, T20007; 1.1896" ID, 1.313" OD, 1.570" O.A.L.

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Forklift **4202D Eng.** *Loader* **4202D Eng.** *Power Unit* **JD202D, 4202D Engs.** *Wheel Tractor* **4202D Eng.** *Windrower* **4202D Eng.** *Crawler Tractor* **4202D Eng.** *Loader Tractor* **4202D Eng.** *Skidder* **4202D Eng.** *Dozer* **4202D Eng.** *Backhoe* **4202D Eng.** **38 (cont.)**
3.3L 202 OHV Diesel L4, 3.8594" Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	**FP-R80033**		w/Con. Rod marked R80032, R80034, R81410, R105011, R113612; Torque-To-Yield bolt; Replacement recommended
8	Con. Rod Bolt	**FP-R74194**		w/Con. Rod marked T20007, R51727, R58979; Torque-To-Yield bolt; Replacement recommended
4	Rod Pair	**FP-RE27348**	*STD*	
4	Rod Pair	**FP-RE27349**	*10*	
4	Rod Pair	**FP-RE27358**	*20*	
4	Rod Pair	**FP-RE27364**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	**FP-AR70633**	*STD*	2-3/32, 1-.196 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-202EORLIFK**		w/Block marked T23406, T24961; w/Con. Rod marked T20007; To Ser. No. 158,257; O-rings on liner; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-202LIFK**		w/Block marked T32342, R53230, R53250, R55034, R72973; w/Con. Rod marked T20007; From Ser. No. 158,258; O-rings in block; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-202LOHK**		w/Block marked R53230, R53250, R55034, R72973, T32342; w/Con. Rod marked T20007; From Ser. No. 158,258; O-rings in block; Incl. front & rear seals; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-202EORLOHK**		w/Block marked T23406, T24961; w/Con. Rod marked T20007; To Ser. No. 158,257; O-rings on liner; Incl. front & rear seals; Incl. Torque-To-Yield con. rod bolts

Combine **217G Eng.** *Harvester* **217G Eng.** *Power Unit* **217G Eng.** **39**
3.6L 217 OHV L6, 3.625" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-V1629**		From Ser. No. 40,000; 1.6880" Head Dia., .3415" Stem Dia., 4.7750" O.A.L.
6	Exhaust	**FP-V3922**		From Ser. No. 40,000; 1.3750" Head Dia., .3415" Stem Dia., 4.7780" O.A.L.
24	Keeper	**VK-63**		2 groove; Round key groove

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	**FP-VG576**		.3440" ID, 2.3750" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	**FP-VS1430**		2.1250" Free Height

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	**ST-2001**		Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal Bulk	**ST-2001BC**		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	**FP-2599Y20**		

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	**FP-2595A**	*STD*	A-Series aluminum bearings
6	Rod Pair	**FP-2595A10**	*10*	A-Series aluminum bearings
6	Rod Pair	**FP-2595A20**	*20*	A-Series aluminum bearings
6	Rod Pair	**FP-2595A30**	*30*	A-Series aluminum bearings

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39 (cont.) *Combine* **217G Eng.** *Harvester* **217G Eng.** *Power Unit* **217G Eng.**
3.6L 217 OHV L6, 3.625" Bore

CYLINDER COMPONENTS (cont.)

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	FP-5444KX		3-3/32, 1-3/16

40 *Combine* **4219G Eng.** *Cotton Picker* **4219G Eng.** *Power Unit* **4219G Eng.** *Wheel Tractor* **4219G Eng.** *Crawler Tractor* **4219G Eng.**
3.6L 219 OHV L4, 4.0156" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-T20075		

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	FP-T20328		

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
4	Valve Stem Seal	FP-R87627		Int.; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; 55 amp alternator; 72 amp alternator

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R94419		w/Pump housing marked R48992
1	Water Pump Impeller	FP-R40979		w/Pump housing marked R49365
1	Water Pump Housing Gasket	FP-T25485		w/Pump housing marked R49365
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R48992, R49365

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat Cover Gasket	FP-T20215		

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
3	Water Manifold Gasket	FP-T23002		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		
1	Oil Pan Gasket	FP-R119360		From Ser. No. 100,001 to Ser. No. 185,199; Manufactured 1964-70; w/Cast iron oil pan
1	Oil Pan Gasket	FP-R119360		From Ser. No. 100,001; Manufactured after 1983; w/Cast iron oil pan
1	Oil Pan Gasket	FP-R119360		From Ser. No. 185,200 to Ser. No. 621,172; Manufactured 1970-83; w/Cast iron oil pan
1	Block to End Plate Front Gskt	FP-R131794		

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-PG219CS		Wear sleeve incl.

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	FP-R57160S		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R105714		Oil cooler; From Ser. No. 3,001 to Ser. No. 150,000
1	Rect. or Square Seal	FP-R70956		Cooler housing w/relief valve; From Ser. No. 3,100 to Ser. No. 150,000; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3002	*STD*	
1	Main Set	FP-MBK300210	*10*	
1	Main Set	FP-MBK300220	*20*	
1	Main Set	FP-MBK300230	*30*	

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Combine **4219G Eng.** *Cotton Picker* **4219G Eng.** *Power Unit* **4219G Eng.** *Wheel Tractor* **4219G Eng.** *Crawler Tractor* **4219G Eng.** (cont.) — 40

3.6L 219 OHV L4, 4.0156" Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil pump inlet; From Ser. No. 240,554

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Sealing Ring	**FP-SLR2515**		Top sleeve seal; Rectangle

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-2595A**	*STD*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A10**	*10*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A20**	*20*	A-Series aluminum bearings
4	Rod Pair	**FP-2595A30**	*30*	A-Series aluminum bearings

Combine **4219D Eng.** *Cotton Picker* **4219D Eng.** *Forklift* **4219D Eng.** *Loader* **4219D Eng.** *Power Unit* **4219D Eng.** *Wheel Tractor* **4219D Eng.** *Windrower* **4219D Eng.** *Crawler Tractor* **4219D Eng.** *Loader Tractor* **4219D Eng.** *Forestry Tractor* **4219D Eng.** *Skidder* **4219D Eng.** *Dozer* **4219D Eng.** *Backhoe* **4219D Eng.** *Sprayer* **4219D Eng.** — 41

3.6L 219 OHV Diesel L4, 4.0156" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R73521**		Rocker arm cover codes 1101, 1102; To Ser. No. 598,042
1	Valve Cover Gasket	**FP-T20075**		To Ser. No. 598,042
1	Head Gasket	**FP-R125863**		From Ser. No. 100,001; Manufactured after 1983
1	Head Gasket	**FP-R125863**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	Head Set	**FP-RE38851**		Rocker arm cover codes 1101, 1102; To Ser. No. 598,042

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	**FP-R83071**	*STD*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3720" Stem Dia., 5.1660" O.A.L.
4	Intake	**FP-R89223**	*3*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3750" Stem Dia., 5.1660" O.A.L.
4	Intake	**FP-R89224**	*15*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3870" Stem Dia., 5.1660" O.A.L.
4	Intake	**FP-R79623**	*STD*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Intake	**FP-R79628**	*3*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Intake	**FP-R79629**	*15*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Intake	**FP-R79630**	*30*	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79624**	*STD*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79625**	*3*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79626**	*15*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79627**	*30*	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R90692**	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
8	Valve Stem Cap	**FP-T20129**		Exh. & Int.
16	Keeper	**FP-41339**		1 groove; Square cut key groove
16	Keeper	**FP-T20077**		1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	**VK-138B**		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	**FP-R51734**	*STD*	
4	Int.	**FP-R73064**	*STD*	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-R26125**		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	**FP-RE11410**		Exh. & Int.
1	Bushing	**FP-T26321**		Lower
1	Bushing	**FP-T20034**		Upper

(continued on next page)

41 (cont.) *Combine* **4219D Eng.** *Cotton Picker* **4219D Eng.** *Forklift* **4219D Eng.** *Loader* **4219D Eng.** *Power Unit* **4219D Eng.** *Wheel Tractor* **4219D Eng.** *Windrower* **4219D Eng.** *Crawler Tractor* **4219D Eng.** *Loader Tractor* **4219D Eng.** *Forestry Tractor* **4219D Eng.** *Skidder* **4219D Eng.** *Dozer* **4219D Eng.** *Backhoe* **4219D Eng.** *Sprayer* **4219D Eng.**
3.6L 219 OHV Diesel L4, 4.0156" Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE MISC. (cont.)	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover code 1101; Oil filler neck codes 1201, 1202, 1203, 1206

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube codes 2901, 2902, 2903

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor code 3001

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Motorola No. A12NJD453; Code 3101; 35 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. A12NJD604; Code 3102; 55 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. 8TA2009ES; Code 3104; 30 amp alternator
1	Ball Brg.	FP-JD9449		Front; 55 amp alternator; 72 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
4	Exhaust Manifold Gasket	FP-R90658		Exh. manifold codes 2801, 2802, 2803, 2807
1	Air Intake Gasket	FP-R81275		Air inlet codes 1701, 1702, 1703, 1704, 1709

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
4	Fuel Injector Nozzle	FP-AR89564		Nozzle assy. codes 1602, 1603; Marked R005A; Master No. 22202
4	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1602, 1603; 9.270MM X 13.600MM X 5.080MM
12	Washer	FP-T20055		Pump codes 1602, 1603
4	Fuel Injector Nut	FP-R79604		w/Injector marked 19762, 20500, 20631, 22042, 22202
8	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1602, 1603; From Ser. No. 126,967
4	Washer Type Seal	FP-R48000		Lower; w/Nozzle marked 19762, 20500, 20631, 22042, 22202; w/Nozzle codes 1602, 1603
4	Washer Type Seal	FP-R48000		Lower; w/Nozzle marked 20631, 22042, 22202
4	Washer Type Seal	FP-R60746		Upper; Nozzle codes 1602, 1603; w/Nozzle marked 20631, 22042, 22202

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Transfer pump
1	Fuel Transfer Pump Gasket	FP-R97350		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R40979		w/Pump housing marked R49365
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	FP-R94419		Pump code 2001; w/Pump housing marked R48997
1	Water Pump Impeller	FP-R94419		Pump code 2002; w/Pump housing marked R55164, T29521
1	Water Pump Impeller	FP-R94419		Pump code 2004; w/Pump housing marked R54051, R55758
1	Water Pump Impeller	FP-R94419		Pump code 2005; w/Pump housing marked R55164
1	Water Pump Repair/Rebuild Kit	FP-939840979		w/Pump housing marked R29701, R48994
1	Water Pump Repair/Rebuild Kit	FP-944840979		w/Pump housing marked R52009
1	Water Pump Repair/Rebuild Kit	FP-925740979		w/Pump housing marked R56787, R62902
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	FP-R97455		w/Pump housing marked R48997, R51039, R54051
1	Water Pump Housing Gasket	FP-R55405		w/Pump housing marked R55164

(continued on next page)

Combine **4219D Eng.** *Cotton Picker* **4219D Eng.** *Forklift* **4219D Eng.** *Loader* **4219D Eng.** *Power Unit* **4219D Eng.** *Wheel Tractor* **4219D Eng.** *Windrower* **4219D Eng.** *Crawler Tractor* **4219D Eng.** *Loader Tractor* **4219D Eng.** *Forestry Tractor* **4219D Eng.** *Skidder* **4219D Eng.** *Dozer* **4219D Eng.** *Backhoe* **4219D Eng.** *Sprayer* **4219D Eng.**

3.6L 219 OHV Diesel L4, 4.0156" Bore

41 (cont.)

COOLING SYSTEM (cont.)

QTY	WATER PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR101549**		Water Pump; w/Pump housing marked R48997, R51039, R54051, R55164, R55758, T29521
1	Shaft & Bearing Assembly	**FP-JD9448**		w/Cast pulley; w/Pump housing marked R55164

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	**FP-RE33705**		Thermostat code 2204; 180 Deg.
1	Thermostat Gasket	**FP-T20219**		Thermostat housing marked T20218
1	Thermostat Cover Gasket	**FP-T20215**		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	**FP-R97351**		Flywheel housing codes 1403, 1404, 1405, 1410
1	Oil Pan Gasket	**FP-R119360**		w/Sheet metal pan; Oil pan codes 1901, 1902, 1903; w/Cast iron oil pan
1	Oil Pan Gasket	**FP-R97342**		Use w/Cast iron oil pan; w/Stamped Steel Pan
1	Block to End Plate Front Gskt	**FP-R131794**		From Ser. No. 100,001; Manufactured after 1983
1	Block to End Plate Front Gskt	**FP-R131794**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	**FP-PG219CS**		Wear sleeve incl.
1	In-Frame Gasket Set	**FP-PG219S**		
1	Complete Overhaul Gasket Set	**FP-RE38857**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE38857WS**		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.
1	Kit Gasket Set	**260-1392**		Head gskt. accommodates FP-T32343-WS larger bore dia. sleeve; Compl.; Rear main brg. seal incl.; Wear sleeve incl.

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	**FP-R57160S**		
6	Balance Shaft Bearing	**FP-R57160**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Washer	**FP-R105714**		Oil cooler; From Ser. No. 1,701 to Ser. No. 3,000
1	Washer	**FP-R105714**		Oil cooler; From Ser. No. 3,301 to Ser. No. 6,500
1	Rect. or Square Seal	**FP-R70956**		Cooler housing w/relief valve; Oil cooler codes 5901, 5902, 5903, 5904; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-AT18030**		
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft marked R100791

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		w/Flywheel housing codes 1402, 1403, 1404, 1405

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3004**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300410**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300420**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300430**	*30*	w/Flanged thrust brg.
4	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
4	Thrust Washer	**FP-R78598**	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	**FP-RE55343**		w/Pump housing marked R54615
1	O-Ring	**FP-R61871**		Oil pump inlet; From Ser. No. 240,554; w/Pump housing marked R54615
1	O-Ring	**FP-R74354**		Oil pump outlet tube; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1200, 1201

(continued on next page)

41 (cont.) *Combine* **4219D Eng.** *Cotton Picker* **4219D Eng.** *Forklift* **4219D Eng.** *Loader* **4219D Eng.** *Power Unit* **4219D Eng.** *Wheel Tractor* **4219D Eng.** *Windrower* **4219D Eng.** *Crawler Tractor* **4219D Eng.** *Loader Tractor* **4219D Eng.** *Forestry Tractor* **4219D Eng.** *Skidder* **4219D Eng.** *Dozer* **4219D Eng.** *Backhoe* **4219D Eng.** *Sprayer* **4219D Eng.**
3.6L 219 OHV Diesel L4, 4.0156" Bore

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	**FP-R116463**	*STD*	w/o Piston spray cooling; O-rings in block
4	Liner w/o Sealing Ring	**FP-T32343**	*STD*	From Ser. No. 275,484
4	Liner w/o Sealing Ring	**FP-R48636**	*STD*	To Ser. No. 275,483
4	Liner w/o Sealing Ring	**FP-T32343**	*STD*	To Ser. No. 275,483
4	Liner w/Sealing Rings	**FP-T32343WS**	*STD*	
4	Liner w/Sealing Rings	**FP-AR51903**	*STD*	To Ser. No. 275,483; Incl. 2-FPR4863R (Rect., upper step & lower groove on sleeve) & 1-FPT32341 (Top groove on sleeve) sealing rings.
4	Cylinder Kit Complete	**FP-AR78041**	*STD*	w/Con. Rod marked R51727; From Ser. No. 275,484; O-Rings in block; Pin dia, 1.38"
4	Cylinder Kit Complete	**FP-AR71593**	*STD*	w/Con. Rod marked T20007, R81410; To Ser. No. 275,483; O-rings in block; Pin dia. 1.19"
4	Cylinder Kit Complete	**FP-CK83108636**	*STD*	w/Con. Rod marked T20007, R81410; To Ser. No. 275,483; O-rings on liner
4	Cyl. Liner Sealing Ring Kit	**FP-AR71618**		From Ser. No. 275,484
4	Cyl. Liner Sealing Ring Kit	**FP-AR71618**		To Ser. No. 275,483
4	Sealing Ring, Liner	**FP-R48637**		To Ser. No. 275,483; Rectangle; Top & Bottom
4	Sealing Ring, Liner	**FP-T32341**		To Ser. No. 275,483; Round
4	Sealing Ring	**FP-SLR2388**		Round
4	Sealing Ring	**FP-SLR2515**		Top sleeve seal; Rectangle

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	**FP-AR77762**	*STD*	From Ser. No. 275,484
4	Piston Body w/o Pin	**FP-AR78310**	*STD*	To Ser. No. 275,483
4	Piston Kit w/Pin & Retainers	**FP-AR77762WP**	*STD*	From Ser. No. 275,484
4	Piston Kit w/Pin & Retainers	**FP-AR78310WP**	*STD*	To Ser. No. 275,483
4	Pin	**FP-R125754**		From Ser. No. 275,484; 1.38" pin dia.
4	Pin	**FP-T26149**		To Ser. No. 275,483
8	Piston Pin Retainer	**FP-M41029**		From Ser. No. 275,484; For 1.38" pin dia.
8	Piston Pin Retainer	**FP-R51112**		To Ser. No. 275,483
4	Pin Bushing	**FP-R55647**		w/Con. Rod marked R51727, R80034; 1.3765" ID, 1.500" OD, 1.570" O.A.L.
4	Pin Bushing	**FP-T23471**		w/Con. Rod marked R81410, T20007; 1.1896" ID, 1.313" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	**FP-R80033**		w/Con. Rod marked R80032, R80034, R81410, R105011, R113612; Torque-To-Yield bolt; Replacement recommended
8	Con. Rod Bolt	**FP-R74194**		w/Con. Rod marked T20007, R51727, R58979; Torque-To-Yield bolt; Replacement recommended
4	Rod Pair	**FP-RE27348**	*STD*	
4	Rod Pair	**FP-RE27349**	*10*	
4	Rod Pair	**FP-RE27358**	*20*	
4	Rod Pair	**FP-RE27364**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	**FP-AR55759**	*STD*	1-1/8, 1-3/32, 1-.1965 (1 cyl. set)
1	Premium Set	**FP-AR55759S**	*STD*	1-1/8, 1-3/32, 1-.1965

CLUTCH

QTY	CLUTCH	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	**FP-JD8537**		PTO Clutch drive; Shaft codes 5801, 5803

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-219EORLIFK**		w/Block marked T26933; w/Con. Rod marked T20007; O-rings on liner; To Ser. No. 275,483; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-219LIFK**		w/Con. Rod marked R51727; Pin dia. 1.38"; From Ser. No. 275,484; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-219MIFK**		w/Con. Rod marked T20007; Pin dia. 1.19"; To Ser. No. 275,483; O-rings in block; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-219EORLOHK**		w/Block marked T26933; w/Con. Rod marked T20007; To Ser. No. 275,483; O-rings on liner; Incl. front & rear seals; Crankshaft marked R100791; Incl. Torque-To-Yield con. rod bolts

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Combine **4219D Eng.** *Cotton Picker* **4219D Eng.** *Forklift* **4219D Eng.** *Loader* **4219D Eng.** *Power Unit* **4219D Eng.** *Wheel Tractor* **4219D Eng.** *Windrower* **4219D Eng.** *Crawler Tractor* **4219D Eng.** *Loader Tractor* **4219D Eng.** *Forestry Tractor* **4219D Eng.** *Skidder* **4219D Eng.** *Dozer* **4219D Eng.** *Backhoe* **4219D Eng.** *Sprayer* **4219D Eng.**
3.6L 219 OHV Diesel L4, 4.0156" Bore

41 (cont.)

KITS (cont.)

QTY	OVERHAUL KIT (cont.)	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	**FP-219LOHK**		w/Con. Rod marked R51727; Pin dia. 1.38"; From Ser. No. 275,484; Incl. front & rear seals; Crankshaft marked R100791; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-219MOHK**		w/Con. Rod marked T20007; Pin dia. 1.19"; To Ser. No. 275,483; O-rings in block; Incl. front & rear seals; Crankshaft marked R100791; Incl. Torque-To-Yield con. rod bolts

Wheel Tractor **4219T Eng.** *Crawler Tractor* **4219T Eng.** *Loader Tractor* **4219T Eng.** *Skidder* **4219T Eng.** *Dozer* **4219T Eng.** *Backhoe* **4219T Eng.**
3.6L 219 OHV Turbo-Diesel L4, 4.0156" Bore

42

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Set	**FP-RE38851**		
QTY	**VALVE**	***PART NO.***	**SIZE**	**DESCRIPTION**
4	Intake	**FP-R83071**	*STD*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3720" Stem Dia., 5.1660" O.A.L.
4	Intake	**FP-R89223**	*3*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3750" Stem Dia., 5.1660" O.A.L.
4	Intake	**FP-R89224**	*15*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3870" Stem Dia., 5.1660" O.A.L.
4	Intake	**FP-R98062**	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
4	Intake	**FP-R79623**	*STD*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Intake	**FP-R79628**	*3*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Intake	**FP-R79629**	*15*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Intake	**FP-R79630**	*30*	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79624**	*STD*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79625**	*3*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79626**	*15*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79627**	*30*	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R90692**	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
8	Valve Stem Cap	**FP-T20129**		Exh. & Int.
16	Keeper	**FP-41339**		1 groove; Square cut key groove
16	Keeper	**FP-T20077**		1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	**VK-138B**		1 groove; Square cut key groove; Carton of 1000
QTY	**VALVE SEAT**	***PART NO.***	**SIZE**	**DESCRIPTION**
4	Exh.	**FP-R51734**	*STD*	
4	Int.	**FP-R73064**	*STD*	
QTY	**VALVE SPRING**	***PART NO.***	**SIZE**	**DESCRIPTION**
8	Spring	**FP-R26125**		2.1200" Free Height
QTY	**VALVE MISC.**	***PART NO.***	**SIZE**	**DESCRIPTION**
8	Rotocap	**FP-RE11410**		Exh. & Int.
1	Bushing	**FP-T26321**		Lower
1	Bushing	**FP-T20034**		Upper
QTY	**VALVE SEAL**	***PART NO.***	**SIZE**	**DESCRIPTION**
8	Valve Stem Seal	**FP-R87627**		O-Ring type

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	**FP-T20073**		

FUEL SYSTEM & PARTS

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	**FP-RE42211**		Transfer pump

(continued on next page)

42 (cont.) *Wheel Tractor* **4219T Eng.** *Crawler Tractor* **4219T Eng.** *Loader Tractor* **4219T Eng.** *Skidder* **4219T Eng.** *Dozer* **4219T Eng.** *Backhoe* **4219T Eng.**

3.6L 219 OHV Turbo-Diesel L4, 4.0156" Bore

COOLING SYSTEM

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat Gasket	**FP-T20219**		Thermostat housing marked T20218
1	Thermostat Cover Gasket	**FP-T20215**		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	**FP-R97342**		w/Stamped Steel Pan

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	**FP-PG219CS**		Wear sleeve incl.
1	In-Frame Gasket Set	**FP-PG219S**		
1	Complete Overhaul Gasket Set	**FP-RE38857**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE38857WS**		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.
1	Kit Gasket Set	**260-1392**		Head gskt. accommodates FP-T32343-WS larger bore dia. sleeve; Compl.; Rear main brg. seal incl.; Wear sleeve incl.

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	**FP-R57160S**		
6	Balance Shaft Bearing	**FP-R57160**		

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-AT18030**		
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft marked R100791

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft marked R100791
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3004**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300410**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300420**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300430**	*30*	w/Flanged thrust brg.
4	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
4	Thrust Washer	**FP-R78598**	*STD*	

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	**FP-R116463**	*STD*	w/o Piston spray cooling; O-rings in block
4	Liner w/o Sealing Ring	**FP-T32343**	*STD*	From Ser. No. 275,484
4	Liner w/Sealing Rings	**FP-T32343WS**	*STD*	
4	Cylinder Kit Complete	**FP-AR78041**	*STD*	w/Con. Rod marked R51727; From Ser. No. 275,484; O-Rings in block; Pin dia, 1.38"
4	Cyl. Liner Sealing Ring Kit	**FP-AR71618**		
4	Sealing Ring, Liner	**FP-R48637**		To Ser. No. 275,483; Rectangle; Top & Bottom
4	Sealing Ring, Liner	**FP-T32341**		To Ser. No. 275,483; Round
4	Sealing Ring	**FP-SLR2388**		Round

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	**FP-AR77762**	*STD*	From Ser. No. 275,484
4	Piston Kit w/Pin & Retainers	**FP-AR77762WP**	*STD*	From Ser. No. 275,484
4	Pin	**FP-R125754**		From Ser. No. 275,484; 1.38" pin dia.
4	Pin	**FP-T26149**		To Ser. No. 275,483
8	Piston Pin Retainer	**FP-M41029**		From Ser. No. 275,484; For 1.38" pin dia.
8	Piston Pin Retainer	**FP-R51112**		To Ser. No. 275,483
4	Pin Bushing	**FP-R55647**		w/Con. Rod marked R51727, R80034; 1.3765" ID, 1.500" OD, 1.570" O.A.L.
4	Pin Bushing	**FP-T23471**		w/Con. Rod marked R81410, T20007; 1.1896" ID, 1.313" OD, 1.570" O.A.L.

(continued on next page)

Wheel Tractor **4219T Eng.** *Crawler Tractor* **4219T Eng.** *Loader Tractor* **4219T Eng.** *Skidder* **4219T Eng.** *Dozer* **4219T Eng.** *Backhoe* **4219T Eng.** **42** **(cont.)**

3.6L 219 OHV Turbo-Diesel L4, 4.0156" Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	**FP-R80033**		w/Con. Rod marked R80032, R80034, R81410, R105011, R113612; Torque-To-Yield bolt; Replacement recommended
8	Con. Rod Bolt	**FP-R74194**		w/Con. Rod marked T20007, R51727, R58979; Torque-To-Yield bolt; Replacement recommended
4	Rod Pair	**FP-RE27348**	*STD*	
4	Rod Pair	**FP-RE27349**	*10*	
4	Rod Pair	**FP-RE27358**	*20*	
4	Rod Pair	**FP-RE27364**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	**FP-AR55759**	*STD*	1-1/8, 1-3/32, 1-.1965 (1 cyl. set)
1	Premium Set	**FP-AR55759S**	*STD*	1-1/8, 1-3/32, 1-.1965

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-219LIFK**		w/Con. Rod marked R51727; Pin dia. 1.38"; From Ser. No. 275,484; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-219LOHK**		w/Con. Rod marked R51727; Pin dia. 1.38"; From Ser. No. 275,484; Incl. front & rear seals; Crankshaft marked R100791; Incl. Torque-To-Yield con. rod bolts

Combine **QXC Eng.** **43**

3.6L 222 L-HEAD L6, 3.375" Bore (Hercules Eng.)

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-V956**		1.6410" Head Dia., .3100" Stem Dia., 4.2940" O.A.L.
6	Exhaust	**FP-V748**		1.4380" Head Dia., .3100" Stem Dia., 4.3320" O.A.L.
24	Keeper	**FP-VK123**		

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	**FP-VG456**		.532" OD; .3120" ID, 2.0940" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	**FP-VS286**		2.0620" Free Height

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-1142M**		

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Plain Main Brg.	**FP-2241CP10**	*10*	Position 1
1	Plain Main Brg.	**FP-2241CP20**	*20*	Position 1
1	Plain Main Brg.	**FP-2241CP30**	*30*	Position 1
4	Plain Main Brg.	**FP-2243CP10**	*10*	Position 2-3-5-6
4	Plain Main Brg.	**FP-2243CP20**	*20*	Position 2-3-5-6
4	Plain Main Brg.	**FP-2243CP30**	*30*	Position 2-3-5-6
1	Plain Main Brg.	**FP-2244CP10**	*10*	Position 4
1	Plain Main Brg.	**FP-2244CP20**	*20*	Position 4
1	Plain Main Brg.	**FP-2244CP30**	*30*	Position 4
1	Plain Main Brg.	**FP-9624CPA10**	*10*	Position 7
1	Plain Main Brg.	**FP-9624CPA20**	*20*	Position 7
1	Plain Main Brg.	**FP-9624CPA30**	*30*	Position 7

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	**FP-9624X**		Full round bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	**FP-9620CPA**	*STD*	
6	Rod Pair	**FP-9620CPA10**	*10*	
6	Rod Pair	**FP-9620CPA20**	*20*	
6	Rod Pair	**FP-9620CPA30**	*30*	

44 *Windrower* H-225 Eng.
3.7L 225 OHV L6, 3.4063" Bore (Chrysler Eng.)

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**V-1434** Std Only		2 groove; 1.6200" Head Dia., .3725" Stem Dia., 4.7740" O.A.L.
24	Keeper	**FP-B367R**		2 groove
24	Keeper	**VK-66R**		2 groove; Hardened
24	Keeper	**VK-174**		4 groove
24	Keeper	**VK-174R**		4 groove; Hardened

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
6	Guide	**VG-5073**		Int.; .3745" ID, 2.3750" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	**VS-510**		Exh. & Int.; 2.0000" Free Height
12	Spring Insert	**259-103C**		.015"; ID 1.030"; Carton of 100

QTY	PUSH RODS	PART NO.	SIZE	DESCRIPTION
12	Push Rod	**RP-3036**		9.9540" O.A.L.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	**MV-1918**		Exh.; Umbrella type; Viton®
6	Valve Stem Seal	**MV-1771C**		Int.; Replacement Engs. No. H2254071330; Umbrella type; Polyacrylate
6	Valve Stem Seal Bulk	**MV-1771**		Int.; Replacement Engs. No. H2254071330; Umbrella type; Carton of 100; Polyacrylate

CAMSHAFT GROUP

QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Timing Chain	**222-495**		Silent type; 50 Links
1	Crank Sprocket	**223-291**		Use w/silent type chain; 19 Teeth

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft	**CS-380**		
12	Lifter	**AT-2084** Std Only		Dumbbell shaped mech.
12	Lifter, Bulk	**AT-2084B** Std Only		Dumbbell shaped mech.; Carton of 117
1	Prelube	**55-400**		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

QTY	CAMSHAFT KIT	PART NO.	SIZE	DESCRIPTION
1	Cam/Lifter Kit	**KC-380**		Dumbbell shaped mech.; Incl. (12) AT-2084, (1) CS-380, (1) 55-403B

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Kit Gasket Set	**260-1004**		Premium valve stem seals incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**1454M** Std Only		
1	Cam Set	**1473M** Std Only		

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**4092M** Std-10-20-30		
1	Main Set	**5070M** Std-10-20-30-40		

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump	**224-4165C**		w/.826" rotor thickness; 5 bolt pump; Will replace early 6 bolt pump

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Cast Piston	**244NP** Std-20-30-40-60		Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., Flat Head - 8.2:1 C.R.
6	Cast Piston - Individual	**W244NP** Std-20-30-40-60		Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., Flat Head - 8.2:1 C.R.
6	Pin Bushing	**2134Y**		

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
1	Rod Set	**6-3695RA** Std-10-20-30-40		A-Series aluminum bearings
1	Rod Set	**6-2375CP** Std-10-20-30-40		6-2375CA 60 avail. as unplated & resizeable
6	Rod Pair	**2375CP** Std-10-20-30-40		
6	Rod Pair	**3695RA** Std-1-10-20-30-40		A-Series aluminum bearings

(continued on next page)

Windrower **H-225 Eng.** **44**
3.7L 225 OHV L6, 3.4063" Bore (Chrysler Eng.) **(cont.)**

CYLINDER COMPONENTS (cont.)

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	**E-196K** Std-20-30-40-60		2-5/64, 1-3/16
1	Standard Set	**E-196X** Std-20-30-40-60		2-5/64, 1-3/16
6	Premium Single Cylinder Set	**WE-196K** Std-20-30-40-60		2-5/64, 1-3/16
6	Standard Single Cylinder Set	**WE-196X** Std-20-30-40-60		2-5/64, 1-3/16

Combine **OOC Eng.** **45**
3.7L 226 OHV L4, 4" Bore (Hercules Eng.)

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-1090M**		

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	**FP-1424X**		Drilled rod type bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-1420CP**	*STD*	w/1.9870-1.9880" std. shaft size
4	Rod Pair	**FP-1420CP10**	*10*	w/1.9870-1.9880" std. shaft size
4	Rod Pair	**FP-1420CP20**	*20*	w/1.9870-1.9880" std. shaft size
4	Rod Pair	**FP-1420CP40**	*40*	w/1.9870-1.9880" std. shaft size
4	Rod Pair	**FP-3220CP**	*STD*	w/2.1232-2.1240" std. shaft size
4	Rod Pair	**FP-3220CP10**	*10*	w/2.1232-2.1240" std. shaft size
4	Rod Pair	**FP-3220CP20**	*20*	w/2.1232-2.1240" std. shaft size
4	Rod Pair	**FP-3220CP30**	*30*	w/2.1232-2.1240" std. shaft size
4	Rod Pair	**3160CP** Std-10		w/2.3730-2.3740" std. shaft size

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	**FP-920KX**		3-1/8, 1-3/16
1	Standard Set	**FP-920X**		3-1/8, 1-3/16
4	Premium Single Cylinder Set	**W-920KX** Std Only		3-1/8, 1-3/16
4	Standard Single Cylinder Set	**W-920X** Std Only		3-1/8, 1-3/16

Wheel Tractor **227G Eng.** *Loader Tractor* **227G Eng.** **46**
3.7L 227 OHV L4, 4.25" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	**FP-V1635**		1.6880" Head Dia., .3720" Stem Dia., 5.7000" O.A.L.
4	Exhaust	**FP-V1634**		1.5000" Head Dia., .3720" Stem Dia., 5.7310" O.A.L.
16	Keeper	**FP-B367R**		2 groove
16	Keeper	**VK-66R**		2 groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Int.	**FP-R78702**	*STD*	1.7550" OD, 1.5000" ID, .2160" Depth

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	**FP-VG606**		.3750" ID, 2.9400" O.A.L.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	**ST-2004**		Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal Bulk	**ST-2004BC**		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-3R46903**	*STD*	
3	Cam Brg.	**FP-R46903**	*STD*	

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3001**	*STD*	
1	Main Set	**FP-MBK300110**	*10*	
1	Main Set	**FP-MBK300120**	*20*	
1	Main Set	**FP-MBK300130**	*30*	

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46 (cont.) *Wheel Tractor* **227G Eng.** *Loader Tractor* **227G Eng.**
3.7L 227 OHV L4, 4.25" Bore

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Sleeve Assy.	**FP-SL2279**		
4	Sealing Ring, Liner	**FP-112847**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Cast Piston	**FP-2279P**	*STD*	Cast; 3-3/32", 1-1/4" Ring Groove, 2.6525" CD, 1.2500" Pin Dia., Recessed Head Wedge Shape .470" deep x 3.500" wide - 7.5:1 C.R.; Repl. O.E. Nos. R33372, R34617
4	Pin Bushing	**FP-3129YA20**		1.252" ID, 1.3785" OD, 1.510" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-AR45723**	*STD*	
4	Rod Pair	**FP-AR46396**	*10*	
4	Rod Pair	**FP-AR46397**	*20*	
4	Rod Pair	**FP-AR46398**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	**FP-W5589KX**	*STD*	Check piston grooving before supplying ring set
2	Premium Set	**FP-5589KX**	*STD*	Check piston grooving before supplying ring set; 3-3/32, 1-1/4 (2 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Tractor Overhaul Kit	**FP-KST2279A**		

47 *Wheel Tractor* **227LP Eng. (LPG).** *Loader Tractor* **227LP Eng. (LPG).**
3.7L 227 OHV LPG L4, 4.25" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	**FP-V1635**		1.6880" Head Dia., .3720" Stem Dia., 5.7000" O.A.L.
4	Exhaust	**FP-V1634**		1.5000" Head Dia., .3720" Stem Dia., 5.7310" O.A.L.
16	Keeper	**FP-B367R**		2 groove
16	Keeper	**VK-66R**		2 groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Int.	**FP-R78702**	*STD*	1.7550" OD, 1.5000" ID, .2160" Depth

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	**FP-VG606**		.3750" ID, 2.9400" O.A.L.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	**ST-2004**		Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal Bulk	**ST-2004BC**		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-3R46903**	*STD*	
3	Cam Brg.	**FP-R46903**	*STD*	

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3001**	*STD*	
1	Main Set	**FP-MBK300110**	*10*	
1	Main Set	**FP-MBK300120**	*20*	
1	Main Set	**FP-MBK300130**	*30*	

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Sleeve Assy.	**FP-SL2454**		
4	Sealing Ring, Liner	**FP-112847**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Cast Piston	**FP-2454P**	*STD*	Cast; 3-3/32", 1-1/4" Ring Groove, 2.655" CD, 1.2500" Pin Dia., Flat Head; Repl. O.E. Nos. R33374, R40778
4	Pin Bushing	**FP-3129YA20**		1.252" ID, 1.3785" OD, 1.510" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-AR45723**	*STD*	
4	Rod Pair	**FP-AR46396**	*10*	
4	Rod Pair	**FP-AR46397**	*20*	

(continued on next page)

Wheel Tractor **227LP Eng. (LPG).** *Loader Tractor* **227LP Eng. (LPG).** **47 (cont.)**
3.7L 227 OHV LPG L4, 4.25" Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS. (cont.)	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-AR46398	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-W5589KX	STD	
2	Premium Set	FP-5589KX	STD	3-3/32, 1-1/4 (2 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Tractor Overhaul Kit	FP-KST2454A		

Combine **QXD3 Eng.** **48**
3.8L 230 L-HEAD L6, 3.4375" Bore (Hercules Eng.)

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-V956		1.6410" Head Dia., .3100" Stem Dia., 4.2940" O.A.L.
6	Exhaust	FP-V748		1.4380" Head Dia., .3100" Stem Dia., 4.3320" O.A.L.
24	Keeper	FP-VK123		

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	FP-VG456		.532" OD; .3120" ID, 2.0940" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-VS286		2.0620" Free Height

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-1142M		

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Plain Main Brg.	FP-2241CP10	10	Position 1
1	Plain Main Brg.	FP-2241CP20	20	Position 1
1	Plain Main Brg.	FP-2241CP30	30	Position 1
4	Plain Main Brg.	FP-2243CP10	10	Position 2-3-5-6
4	Plain Main Brg.	FP-2243CP20	20	Position 2-3-5-6
4	Plain Main Brg.	FP-2243CP30	30	Position 2-3-5-6
1	Plain Main Brg.	FP-2244CP10	10	Position 4
1	Plain Main Brg.	FP-2244CP20	20	Position 4
1	Plain Main Brg.	FP-2244CP30	30	Position 4
1	Plain Main Brg.	FP-9624CPA10	10	Position 7
1	Plain Main Brg.	FP-9624CPA20	20	Position 7
1	Plain Main Brg.	FP-9624CPA30	30	Position 7

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	FP-9624X		Full round bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-9620CPA	STD	
6	Rod Pair	FP-9620CPA10	10	
6	Rod Pair	FP-9620CPA20	20	
6	Rod Pair	FP-9620CPA30	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	FP-644KX		Check piston grooving before supplying ring set; 3-1/8, 1-3/16
6	Premium Single Cylinder Set	W-644KX Std Only		Check piston grooving before supplying ring set; 3-1/8, 1-3/16

Power Unit **232D Eng.** **49**
3.8L 232 OHV Diesel L6, 3.875" Bore

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	FP-2599Y20		

(continued on next page)

49 (cont.) *Power Unit* 232D Eng.
3.8L 232 OHV Diesel L6, 3.875" Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-2595A	STD	A-Series aluminum bearings
6	Rod Pair	FP-2595A10	10	A-Series aluminum bearings
6	Rod Pair	FP-2595A20	20	A-Series aluminum bearings
6	Rod Pair	FP-2595A30	30	A-Series aluminum bearings

50 *Forklift* 4239D Eng. *Wheel Tractor* 4239D Eng. *Windrower* 4239D Eng. *Crawler Tractor* 4239D Eng. *Loader Tractor* 4239D Eng. *Excavator* 4239D Eng. *Backhoe* 4239D Eng. *Sprayer* 4239D Eng.
3.9L 239 OHV Diesel L4 (Standard), 4.1875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R73521		w/Stamped Steel Cover; Rocker arm cover codes 1101, 1102, 1106; From Ser. No. 539,557
1	Head Gasket	FP-R125863		From Ser. No. 300,000
1	Head Set	FP-RE38851		From Ser. No. 300,000

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R79623	STD	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79628	3	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79629	15	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79630	30	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79624	STD	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79625	3	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79626	15	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79627	30	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
16	Keeper	FP-T20077		Valve, seat, spring & retainer code 5101; 1 groove; Square cut key groove; Hardened
16	Keeper	FP-41339		1 groove; Square cut key groove
16	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	FP-R51734	STD	
4	Int.	FP-R73064	STD	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	FP-RE11410		Exh. & Int.; Valve, seat, spring & retainer code 5101
1	Bushing	FP-T26321		Lower
1	Bushing	FP-T20034		Upper
1	Oil Filler Cap Gasket	FP-R80135		Oil filler neck code 1201, 1202, 1203; L.H. Auxiliary drive

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube code 2901 R.H.; Codes 2902, 2903 L.H.; Codes 2905, 2909, 2911, 2915, 2999

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3001, 3013, 3017, 3018

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Motorola No. A12NJD604; Code 3102; 12 Volt, 35 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. 70D44110C01; Code 3102; 12 Volt, 55 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. 70D44120C01; Code 3101; 12 Volt, 35 amp alternator

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Forklift **4239D Eng.** *Wheel Tractor* **4239D Eng.** *Windrower* **4239D Eng.** *Crawler Tractor* **4239D Eng.** *Loader Tractor* **4239D Eng.** *Excavator* **4239D Eng.** *Backhoe* **4239D Eng.** *Sprayer* **4239D Eng.**
3.9L 239 OHV Diesel L4 (Standard), 4.1875" Bore

50 (cont.)

ELECTRICAL (cont.)

QTY	ALTERNATOR (cont.)	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	**FP-JD9449**		Front; Motorola No. 8TA2009S; Code 3104; 12 Volt, 30 amp alternator
2	Ball Brg.	**FP-JD9449**		Front & Rear; Motorola No. 70D42076T02; Codes 3101, 3104, 3108, 3109, 3116, 3129, 3130; 12 Volt, 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
4	Exhaust Manifold Gasket	**FP-R90658**		
1	Air Intake Gasket	**FP-R81275**		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	**FP-T20273**		Access cover
1	Timing Gear Cover Gasket	**FP-R97454**		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	**FP-T20073**		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	**FP-R125066**		Gear cover
4	Fuel Injector Nozzle	**FP-AR89564**		Injector nozzle code 1602, 1603
4	Fuel Injector Seal	**FP-R79605**		Fuel line connection; Nozzle codes 1602, 1603, 1617, 1623, 1641, 1645, 1646; Nozzle marked 27333; 9.270MM X 13.600MM X 5.080MM
8	Washer	**FP-T20055**		Pump code 1602
4	Fuel Injector Nut	**FP-R79604**		w/Injector marked 22043, 22203, 27333; From Ser. No. 410,664
2	Clamp	**FP-R34766**		Pump code 3701
8	Washer Type Seal	**FP-R51936**		Leak-off & return line seals; Nozzle codes 1602, 1603, 1617, 1619, 1623, 1624, 1641, 1645, 1646; w/Nozzle marked 22043, 27333
4	Washer Type Seal	**FP-R48000**		Lower; w/Nozzle codes 1602, 1603, 1617, 1623, 1641, 1645, 1646
4	Washer Type Seal	**FP-R60746**		Upper; Nozzle codes 1602, 1603, 1617, 1623, 1641, 1645, 1646

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	**FP-RE42211**		Transfer pump
1	Injector Pump Mount Gasket	**FP-R97354**		w/Roto-Diesel fuel pump
1	Fuel Transfer Pump Gasket	**FP-R97350**		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	**FP-R47191**		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	**FP-R94419**		Pump codes 2004, 2021; w/Pump housing marked R73604, R100871, R111028
1	Water Pump Impeller	**FP-R94419**		Pump codes 2005, 2022; w/Pump housing marked R55164
1	Water Pump Repair/Rebuild Kit	**FP-944840979**		w/Pump housing marked R52009
1	Water Pump Repair/Rebuild Kit	**FP-925740979**		w/Pump housing marked R56787, R62902
1	Water Pump Repair/Rebuild Kit	**FP-RE62661**		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	**FP-R55406**		w/Pump housing marked R55130
1	Water Pump Housing Gasket	**FP-R56809**		w/Pump housing marked R55164; Pump code 2004
1	Water Pump Housing Gasket	**FP-R55405**		w/Pump housing marked R55164; Pump code 2005
1	Water Pump Housing Gasket	**FP-R97455**		w/Pump housing marked R55758, R73604, R100871, R111028
1	Oil Seal Kit	**FP-AR101549**		Water Pump; w/Pump housing marked R100871, R111028, R55164, R55758, R73604
1	Water Pump Mounting Gasket	**FP-T20243**		w/Pump housing marked R55130, R55164, R55758, R73604, R100871, R111028
1	Shaft & Bearing Assembly	**FP-JD9448**		w/Cast pulley; w/Pump housing marked R55164
1	Shaft & Bearing Assembly	**FP-JD9257**		w/Pump housing marked R55164, R55758, R73604, R100871, R111028

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	**FP-RE33705**		Thermostat code 2204; Housing code marked R60256; 180 Deg.
1	Thermostat Gasket	**FP-T20219**		Single thermostat cover codes 2101, 2102, 2204, 3901
1	Thermostat Cover Gasket	**FP-T20215**		Single thermostat cover codes 2101, 2102, 2204, 3901
2	O-Ring	**FP-R56461**		Thermostat housing tube seals

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50 (cont.) *Forklift* **4239D Eng.** *Wheel Tractor* **4239D Eng.** *Windrower* **4239D Eng.** *Crawler Tractor* **4239D Eng.** *Loader Tractor* **4239D Eng.** *Excavator* **4239D Eng.** *Backhoe* **4239D Eng.** *Sprayer* **4239D Eng.**
3.9L 239 OHV Diesel L4 (Standard), 4.1875" Bore

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	**FP-R97351**		Flywheel housing codes 1404, 1405, 1410, 1418, 1421, 1423, 1425
1	Oil Pan Gasket	**FP-R119360**		w/Sheet metal pan; Oil pan codes 1901, 1902, 1903; w/Cast iron oil pan
1	Oil Pan Gasket	**FP-R97342**		w/Stamped Steel Pan
1	Block to End Plate Front Gskt	**FP-R131794**		Front plate codes 3601, 3602

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	**FP-PG219CS**		Wear sleeve incl.
1	In-Frame Gasket Set	**FP-PG219S**		
1	Complete Overhaul Gasket Set	**FP-RE38857**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE38857WS**		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.
1	Kit Gasket Set	**260-1392**		Compl.; Rear main brg. seal incl.; Wear sleeve incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Cam Brg.	**FP-R91708**		Cyl. block codes 4601, 4602; 2.0MM O/S OD; Balance shaft bushing

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	**FP-R57160S**		
6	Balance Shaft Bearing	**FP-R57160**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Washer	**FP-R105714**		Oil cooler; Modine Oil Cooler codes 5904, 5906, 5907; To Ser. No. 794,193
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; Cooler code 5906; Water pump codes 2004, 2021; From Ser. No. 498,386 to Ser. No. 794,193; 2.700" X 3.000" X .180"
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; Cooler codes 5904, 5906; Water pump codes 2004, 2021; From Ser. No. 794,194; 2.700" X 3.000" X .180"
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; Cooler codes 5905, 5906; Water pump codes 2004, 2005; To Ser. No. 498,385; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE20585**		From Ser. No. 769,620
1	Crankshaft	**FP-AT18030**		To Ser. No. 769,619
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft codes 4701, 4702; Crankshaft marked R81959; From Ser. No. 769,620
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft codes 4701, 4702; Crankshaft marked T23517; To Ser. No. 769,619

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		
1	O-Ring	**FP-H35244**		Crankshaft pulley; Crankshaft, Bearing codes 4701, 4702

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		Crankshaft, Bearing codes 4701, 4702; Flywheel housing codes 1403, 1404, 1405, 1410, 1421, 1425, 1432

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3004**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300410**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300420**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300430**	*30*	w/Flanged thrust brg.
4	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
4	Thrust Washer	**FP-R78598**	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	**FP-RE55343**		Pump code 5001; w/Pump housing marked R54615
1	O-Ring	**FP-R61871**		Oil pump inlet; Pump codes 5001, 5002
1	O-Ring	**FP-R74354**		Oil pump outlet tube; Pump codes 5001, 5002; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1201, 1203, 1299

(continued on next page)

Forklift 4239D Eng. *Wheel Tractor* 4239D Eng. *Windrower* 4239D Eng. *Crawler Tractor* 4239D Eng. *Loader Tractor* 4239D Eng. *Excavator* 4239D Eng. *Backhoe* 4239D Eng. *Sprayer* 4239D Eng. — 50 (cont.)

3.9L 239 OHV Diesel L4 (Standard), 4.1875" Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	OIL PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck codes 1202, 1206; To Ser. No. 703,963

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	FP-R116281		
4	Liner w/Sealing Rings	FP-RE500023		
4	Cylinder Kit Complete	FP-RE30250	STD	w/Con. Rod marked R51727, R80034
4	Cyl. Liner Sealing Ring Kit	FP-AR65507		
4	Sealing Ring, Liner	FP-R48767		Rectangle; Top
4	Sealing Ring	FP-SLR2520		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-RE19282		
4	Piston Kit w/Pin & Retainers	FP-RE19282WP		
4	Pin	FP-R125754		1.38" pin dia.
8	Piston Pin Retainer	FP-M41029		For 1.38" pin dia.
4	Pin Bushing	FP-R55647		w/Con. Rod marked R51727, R80032, R80034, R80032; 1.3765" ID, 1.500" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	FP-R80033		w/Con. Rod marked R80032, R80034, R81410, R105011, R113612; Torque-To-Yield bolt; Replacement recommended
8	Con. Rod Bolt	FP-R74194		w/Con. Rod marked T20007, R51727, R58979; Torque-To-Yield bolt; Replacement recommended
4	Rod Pair	FP-RE27348	STD	
4	Rod Pair	FP-RE27349	10	
4	Rod Pair	FP-RE27358	20	
4	Rod Pair	FP-RE27364	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE507852	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66820	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-239DIFK		w/Con. Rod marked R51727, R80032, R80034
1	Complete Overhaul Kit	FP-239DOHK		w/Con. Rod marked R51727, R80032, R80034; Incl. front & rear seals; Crankshaft codes 4701, 4702; Crankshaft marked R81959 from Ser. No. 769,620; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-239DOHK		w/Con. Rod marked R51727, R80032, R80034; Incl. front & rear seals; Crankshaft codes 4701, 4702; Crankshaft marked T23517 to Ser. No. 769,619; Incl. Torque-To-Yield con. rod bolts

Wheel Tractor 4239T Eng. *Windrower* 4239T Eng. *Loader Tractor* 4239T Eng. *Excavator* 4239T Eng. *Backhoe* 4239T Eng. — 51

3.9L 239 OHV Turbo-Diesel L4 (Standard), 4.1875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R73521		w/Stamped Steel Cover; Rocker arm cover codes 1101, 1102, 1106
1	Head Gasket	FP-R125863		
1	Head Set	FP-RE38851		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R83071	STD	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3720" Stem Dia., 5.1660" O.A.L.
4	Intake	FP-R89223	3	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3750" Stem Dia., 5.1660" O.A.L.
4	Intake	FP-R89224	15	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3870" Stem Dia., 5.1660" O.A.L.
4	Intake	FP-R79623	STD	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79628	3	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79629	15	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.

(continued on next page)

51 (cont.) *Wheel Tractor* **4239T Eng.** *Windrower* **4239T Eng.** *Loader Tractor* **4239T Eng.** *Excavator* **4239T Eng.** *Backhoe* **4239T Eng.**
3.9L 239 OHV Turbo-Diesel L4 (Standard), 4.1875" Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE (cont.)	PART NO.	SIZE	DESCRIPTION
4	Intake	**FP-R79630**	*30*	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79624**	*STD*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79625**	*3*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79626**	*15*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79627**	*30*	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
16	Keeper	**FP-T20077**		Valve, seat, spring & retainer code 5102; 1 groove; Square cut key groove; Hardened
16	Keeper	**FP-41339**		1 groove; Square cut key groove
16	Keeper, Bulk	**VK-138B**		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	**FP-R51734**	*STD*	
4	Int.	**FP-R73064**	*STD*	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-R26125**		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	**FP-RE11410**		Exh. & Int.; Valve, seat, spring & retainer code 5102
1	Bushing	**FP-T26321**		Lower
1	Bushing	**FP-T20034**		Upper
1	Oil Filler Cap Gasket	**FP-T20328**		Rocker arm cover code 1201, 1202, 1203

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	**FP-R87627**		Exh. & Int.; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R56463**		Aftercooled; Rocker cover breather tube; Breather tube code 2901 R.H.; Code 2902 flexible; Code 2903 L.H.; Fitting seal
1	O-Ring	**FP-R56463**		Rocker cover breather tube; Breather tube code 2901 flexible; Fitting seal

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	**FP-R53108**		3-Hole mount; Starting motor codes 3001, 3013, 3017, 3018

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	**FP-JD9449**		Front; Motorola No. A12NJD453; Code 3102; 12 Volt, 35 amp alternator
1	Ball Brg.	**FP-JD9449**		Front; Motorola No. 70D44110C01; 12 Volt, 55 amp alternator
1	Ball Brg.	**FP-JD9449**		Front; Motorola No. 70D44120C01; Code 3101; 12 Volt, 35 amp alternator
1	Ball Brg.	**FP-JD9449**		Front; Motorola No. 8TA2009S; Code 3104; 12 Volt, 55 amp alternator
2	Ball Brg.	**FP-JD9449**		Front & Rear; Motorola No. 70D42076T02; Code 3104; 12 Volt, 65 amp alternator
2	Ball Brg.	**FP-JD9449**		Front & Rear; Motorola No. 70D42076T02; Codes 3101, 3108, 3109, 3116, 3129, 3130; 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
4	Exhaust Manifold Gasket	**FP-R90658**		
1	Air Intake Gasket	**FP-R81275**		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	**FP-T20273**		Access cover
1	Timing Gear Cover Gasket	**FP-R97454**		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	**FP-T20073**		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	**FP-R125066**		Gear cover
4	Fuel Injector Seal	**FP-R79605**		Fuel line connection; Nozzle codes 1602, 1603, 1606, 1623, 1635, 1636, 1641, 1643, 1650, 1651; From Ser. No. 410,664; 9.270MM X 13.600MM X 5.080MM

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Wheel Tractor **4239T Eng.** *Windrower* **4239T Eng.** *Loader Tractor* **4239T Eng.** *Excavator* **4239T Eng.** *Backhoe* **4239T Eng.** **51 (cont.)**

3.9L 239 OHV Turbo-Diesel L4 (Standard), 4.1875" Bore

FUEL SYSTEM & PARTS (cont.)

QTY	FUEL INJECTION (cont.)	PART NO.	SIZE	DESCRIPTION
4	Fuel Injector Seal	**FP-R92352**		Upper packing; w/Injector nozzle codes 1601, 1603
4	Fuel Injector Nut	**FP-R79604**		w/Injector marked 22265, 26992, 26993, 27337; From Ser. No. 410,664
2	Clamp	**FP-R34766**		Pump code 3701
8	Washer Type Seal	**FP-R51936**		Leak-off & return line seals; Nozzle codes 1602, 1603, 1606, 1619, 1623, 1624, 1635, 1636, 1641, 1643, 1650, 1651; w/Nozzle marked 26992, 27337
4	Washer Type Seal	**FP-R48000**		Lower; w/Nozzle codes 1602, 1603, 1606, 1623, 1635, 1636, 1641, 1643, 1650, 1651
4	Washer Type Seal	**FP-R60746**		Upper; Nozzle codes 1602, 1603, 1606, 1623, 1635, 1636, 1641, 1643, 1650, 1651

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	**FP-RE42211**		Transfer pump
1	Injector Pump Mount Gasket	**FP-R97354**		w/Roto-Diesel fuel pump
1	Fuel Transfer Pump Gasket	**FP-R97350**		

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	**FP-R105346**		
1	Turbocharger Mounting Gasket	**FP-R89879**		Exc. Low profile turbocharger
1	Turbocharger Oil Supply Gskt.	**FP-R97348**		Turbo code 6501

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	**FP-R47191**		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	**FP-R56812**		w/Pump housing marked R70612, R90783, R90785
1	Water Pump Impeller	**FP-R94419**		Pump codes 2005, 2022; w/Pump housing marked R55164
1	Water Pump Impeller	**FP-R94419**		Pump codes 2021, 2026; w/Pump housing marked R73604, R100871, R111028
1	Water Pump Repair/Rebuild Kit	**FP-864340979**		w/Pump housing marked R51661, R73606, R73724, R79171
1	Water Pump Repair/Rebuild Kit	**FP-944840979**		w/Pump housing marked R52009
1	Water Pump Repair/Rebuild Kit	**FP-925740979**		w/Pump housing marked R56787, R62902
1	Water Pump Repair/Rebuild Kit	**FP-RE62661**		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	**FP-R55406**		w/Pump housing marked R55130
1	Water Pump Housing Gasket	**FP-R55405**		w/Pump housing marked R55164
1	Water Pump Housing Gasket	**FP-R56809**		w/Pump housing marked R70612, R90783, R90785
1	Water Pump Housing Gasket	**FP-R97455**		w/Pump housing marked R73604, R100871, R111028
1	Water Pump Housing Gasket	**FP-R56809**		w/Pump housing marked R85023, R99251
1	Oil Seal Kit	**FP-AR101549**		Water Pump; w/Pump housing marked R55164, R90783
1	Water Pump Mounting Gasket	**FP-T20243**		w/Pump housing marked R55130, R55164, R56070, R56813, R70612, R73604, R85023, R90783, R90785, R99251, R100871, R111028
1	Shaft & Bearing Assembly	**FP-JD9257**		w/Pump housing marked R55164, R55758, R73604, R100871, R111028
1	Shaft & Bearing Assembly	**FP-JD8643**		w/Pump housing marked R70612, R90783, R90785

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	**FP-AR48675**		Thermostat code 2204; Thermostat cover code 2102 Vertical, 2108 Horizontal; Housing code 3901; 180 Deg.
1	Thermostat	**FP-RE33705**		Thermostat code 2208; Housing marked R60256; 180 Deg.
1	Thermostat Gasket	**FP-T20219**		Single thermostat cover codes 2101, 2109, 2208, 3906
1	Thermostat Cover Gasket	**FP-T20215**		Single thermostat cover codes 2101, 2109, 2208, 3906; w/housing marked R60256, T20218
1	Therm. Hsg. - Water Mfld. Gsk	**FP-R54641**		Thermostat housing to cyl. head
2	O-Ring	**FP-R56461**		Thermostat housing tube seals; Housing code 3901

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Line Gasket	**FP-R97346**		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	**FP-R97351**		Flywheel housing codes 1404, 1405, 1410, 1418, 1421, 1423, 1425
1	Oil Pan Gasket	**FP-R97342**		w/Stamped Steel Pan
1	Block to End Plate Front Gskt	**FP-R131794**		Front plate codes 3601, 3602

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	**FP-PG219CS**		Wear sleeve incl.
1	In-Frame Gasket Set	**FP-PG219S**		
1	Complete Overhaul Gasket Set	**FP-RE38857**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE38857WS**		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.

(continued on next page)

51 (cont.) *Wheel Tractor* **4239T Eng.** *Windrower* **4239T Eng.** *Loader Tractor* **4239T Eng.** *Excavator* **4239T Eng.** *Backhoe* **4239T Eng.**

3.9L 239 OHV Turbo-Diesel L4 (Standard), 4.1875" Bore

ENGINE BLOCK & PARTS (cont.)

QTY	GASKET SETS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Kit Gasket Set	**260-1392**		Compl.; Rear main brg. seal incl.; Wear sleeve incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Cam Brg.	**FP-R91708**		Cyl. block codes 4601, 4602; 2.0MM O/S OD; Balance shaft bushing

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	**FP-R57160S**		
6	Balance Shaft Bearing	**FP-R57160**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket Set	**FP-4039A**		
1	Oil Cooler	**FP-RE61767**		RePower Engs. DD14964, DD14965; w/Cooler codes 5904, 5906, 5908, 5914, 5916, 5995; w/6 plates; From Ser. No. 185,224
1	Washer	**FP-R105714**		Oil cooler; w/10 plate cooler; To Ser. No. 795,106
1	Washer	**FP-R105714**		Oil cooler; Oil Cooler codes 5904, 5905, 5906, 5907; To Ser. No. 794,193
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; Cooler code 5906; Water pump code 2026; From Ser. No. 794,194; 2.700" X 3.000" X .180"
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; Cooler code 5907; Water pump codes 2004, 2023; 2.700" X 3.000" X .180"
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; Cooler codes 5904, 5905, 5906; Water pump codes 2004, 2005; To Ser. No. 498,385; 2.700" X 3.000" X .180"
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; Cooler codes 5904, 5906; Water pump codes 2023, 2026; From Ser. No. 498,386 Ser. No. to 794,193; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE20585**		From Ser. No. 769,620
1	Crankshaft	**FP-AT18030**		To Ser. No. 769,619
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft codes 4701, 4702; Crankshaft marked R81959; From Ser. No. 769,620
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft codes 4701, 4702; Crankshaft marked T23517; To Ser. No. 769,619

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		
1	O-Ring	**FP-H35244**		Crankshaft pulley; Pulley codes 1301, 1307, 1315; Crankshaft, Bearing codes 4701, 4702

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**39952**		
1	Crankshaft Rear Seal	**FP-RE24959**		Crankshaft, Bearing codes 4701, 4702; Flywheel housing codes 1403, 1404, 1405, 1410, 1421, 1425, 1432

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3004**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300410**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300420**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300430**	*30*	w/Flanged thrust brg.
4	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
4	Thrust Washer	**FP-R78598**	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil pump inlet; Pump codes 5001, 5007; w/Pump housing marked R54615, R54629
1	O-Ring	**FP-R74354**		Oil pump outlet tube; Pump codes 5001, 5007; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1201, 1203, 1299
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1202, 1206; To Ser. No. 703,963
1	Oil Pump Seal Ring	**FP-R79563**		Oil pump outlet adapter; Pump code 5001

(continued on next page)

Wheel Tractor **4239T Eng.** *Windrower* **4239T Eng.** *Loader Tractor* **4239T Eng.** *Excavator* **4239T Eng.** *Backhoe* **4239T Eng.** **51** **(cont.)**

3.9L 239 OHV Turbo-Diesel L4 (Standard), 4.1875" Bore

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	**FP-R116281**		
4	Liner w/Sealing Rings	**FP-RE500023**		
4	Cylinder Kit Complete	**FP-RE33115**		w/Con. Rod marked R58979, R80032, R113612
4	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		
4	Sealing Ring, Liner	**FP-R48767**		Rectangle; Top
4	Sealing Ring, Liner	**FP-R26121**		Round; Middle
4	Sealing Ring	**FP-SLR2520**		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	**FP-RE48368**		
4	Piston Kit w/Pin & Retainers	**FP-RE48368WP**		
4	Pin	**FP-R124230**		1.62" pin dia.
8	Piston Pin Retainer	**FP-R54114**		For 1.62" pin dia.
4	Pin Bushing	**FP-R57451**		w/Con. Rod marked R56187, R58979, R80032, R113612; Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	**FP-R80033**		w/Con. Rod marked R80032, R113612; Torque-To-Yield bolt; Replacement recommended
8	Con. Rod Bolt	**FP-R74194**		w/Con. Rod marked T20007, R51727, R58979; Torque-To-Yield bolt; Replacement recommended
4	Rod Pair	**FP-RE27348**	*STD*	
4	Rod Pair	**FP-RE27349**	*10*	
4	Rod Pair	**FP-RE27358**	*20*	
4	Rod Pair	**FP-RE27364**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	**FP-RE507852**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	**FP-RE66820**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-239TIFK**		w/Con. Rod marked R58979, R80032, R113612; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-239TOHK**		w/Con. Rod marked R58979, R80032, R113612; Pin dia. 1.62"; Crankshaft codes 4701, 4702; Crankshaft marked R81959 from Ser. No. 769,620; Incl. front & rear seals; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-239TOHK**		w/Con. Rod marked R58979, R80032, R113612; Pin dia. 1.62"; Crankshaft codes 4701, 4702; Crankshaft marked T23517 to Ser. No. 769,619; Incl. front & rear seals; Incl. Torque-To-Yield con. rod bolts

Forklift **4039D Eng.** *Crawler Tractor* **4039D Eng.** *Excavator* **4039D Eng.** *Backhoe* **4039D Eng.** **52**

3.9L 239 (3917cc) OHV Diesel L4 (Litre Engine), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R73521**		w/Stamped Steel Cover; Rocker arm cover codes 1101, 1102, 1106
1	Head Gasket	**FP-R125863**		From Ser. No. 300,000
1	Head Set	**FP-RE38851**		From Ser. No. 300,000

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	**FP-R98062**	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
4	Intake	**FP-R97490**	*15*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
4	Exhaust	**FP-R90692**	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
4	Exhaust	**FP-R97492**	*15*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
16	Keeper	**FP-R91889**		Exh. & Int.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	**FP-R85687**	*STD*	
4	Int.	**FP-R98335**		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
4	Int.	**FP-R98063**	*STD*	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-R26125**		Exh. & Int.; 2.1200" Free Height

(continued on next page)

52 (cont.) *Forklift* **4039D Eng.** *Crawler Tractor* **4039D Eng.** *Excavator* **4039D Eng.** *Backhoe* **4039D Eng.**
3.9L 239 (3917cc) OHV Diesel L4 (Litre Engine), 106mm Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	FP-RE60005		Exh. & Int.
1	Oil Filler Cap Gasket	FP-T20328		Oil filler neck codes 1101, 1104, 1201, 1202, 1203, 1206
1	Oil Filler Cap Gasket	FP-R80135		Oil filler neck codes 1204, 1205, 1207; L.H. Auxiliary drive

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-RE31617		Exh. & Int.; From Ser. No. 300,000; Positive type
8	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3001, 3002, 3007, 3015, 3017, 3019

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Delco-Remy components; Codes 3114, 3115, 3116; 78 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola components; Codes 3101, 3116, 3129; 12 Volt, 65 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola components; Codes 3117, 3118, 3119, 3120; 24 Volt, 45 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola No. 70D42076T02; Codes 3108, 3109, 3130; 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
4	Exhaust Manifold Gasket	FP-R90658		Exh. manifold codes 2801, 2802, 2803, 2822
1	Air Intake Gasket	FP-R81275		Int. manifold codes 1701, 1703, 1707, 1709

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
4	Fuel Injector Nozzle	FP-RE36935		w/Injector marked 28480
4	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1602, 1603, 1604, 1613, 1615, 1619, 1620, 1624; Nozzle marked 28480; 9.270MM X 13.600MM X 5.080MM
4	Fuel Injector Seal	FP-R79605		Fuel line connection; RePower Engs.; Nozzle code 1695; 9.270MM X 13.600MM X 5.080MM
4	Fuel Injector Nut	FP-R79604		w/Injector marked 28480
2	Clamp	FP-R34766		Pump codes 3701, 3702, 3707, 3712
8	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1601, 1602, 1603, 1604, 1609, 1613, 1615, 1619, 1620, 1621, 1624, 1646
8	Washer Type Seal	FP-R51936		RePower Engs.; Leak-off & return line seals; Nozzle code 1695
4	Washer Type Seal	FP-R48000		Lower; w/Oversize injector bore; w/Nozzle codes 1602, 1603, 1613, 1615, 1619, 1620, 1623, 1624
4	Washer Type Seal	FP-R60746		Upper; Nozzle codes 1602, 1603, 1604, 1613, 1615, 1619, 1620, 1624

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Transfer pump
1	Injector Pump Mount Gasket	FP-R97354		w/Roto-Diesel fuel pump
1	O-Ring	FP-R26286		Fuel inj. pump codes 1602, 1603, 1609, 1614, 1618, 1623, 1624, 1643, 1646, 1664; Fuel inlet fitting seal
1	Fuel Transfer Pump Gasket	FP-R97350		Pump code 3799; Cover gskt.

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	FP-R56812		w/Pump housing marked R90783
1	Water Pump Impeller	FP-R94419		Pump code 2004; w/Pump housing marked R100871, R111028
1	Water Pump Impeller	FP-R94419		Pump code 2021; w/Pump housing marked R73604, R100871, R111028
1	Water Pump Impeller	FP-R94419		Pump code 2022; w/Pump housing marked R55164
1	Water Pump Repair/Rebuild Kit	FP-864340979		w/Pump housing marked R51661, R73606, R73724, R79171
1	Water Pump Repair/Rebuild Kit	FP-944840979		w/Pump housing marked R52009
1	Water Pump Repair/Rebuild Kit	FP-RE62658		w/Pump housing marked R55164, R73604

(continued on next page)

Forklift **4039D Eng.** *Crawler Tractor* **4039D Eng.** *Excavator* **4039D Eng.** *Backhoe* **4039D Eng.** **52**
3.9L 239 (3917cc) OHV Diesel L4 (Litre Engine), 106mm Bore **(cont.)**

COOLING SYSTEM (cont.)

QTY	WATER PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Water Pump Repair/Rebuild Kit	**FP-925740979**		w/Pump housing marked R56787, R62902
1	Water Pump Repair/Rebuild Kit	**FP-RE62661**		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	**FP-R55405**		w/Pump housing marked R55164
1	Water Pump Housing Gasket	**FP-R97455**		w/Pump housing marked R73604, R100871, R111028
1	Water Pump Housing Gasket	**FP-R56809**		w/Pump housing marked R90783
1	Oil Seal Kit	**FP-AR101549**		Water Pump; w/Pump housing marked R55164, R90783
1	Water Pump Mounting Gasket	**FP-T20243**		w/H/D Pump housing marked R100812, R127918
1	Water Pump Mounting Gasket	**FP-T20243**		w/Pump housing marked R55164, R67188, R73604, R90783, R90784, R100871, R104648, R111028
1	O-Ring	**FP-U13639**		Coolant heater codes 2601, 2602; Adapter seal; 1.475" X .118"
1	Shaft & Bearing Assembly	**FP-JD9448**		w/Cast pulley; w/Pump housing marked R55164
1	Shaft & Bearing Assembly	**FP-JD9257**		w/Pump housing marked R55164, R73604, R100871, R111028, R111084, R59049
1	Shaft & Bearing Assembly	**FP-JD8643**		w/Pump housing marked R90783

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	**FP-RE33705**		Thermostat code 2204; Housing codes 3901, 3904; 180 Deg.
2	Thermostat	**FP-AR48675**		Thermostat code 2207; Housing codes 3901, 3904; 180 Deg.
1	Thermostat Gasket	**FP-T20219**		
1	Thermostat Cover Gasket	**FP-T20215**		Thermostat cover code 2101; Thermostat housing code 3004
1	Thermostat Cover Gasket	**FP-R54638**		Thermostat cover codes 2105, 2108; Thermostat housing codes 3901, 3904; w/Two thermostats
1	Therm. Hsg. - Water Mfld. Gsk	**FP-R54641**		Thermostat housing to cyl. head
2	O-Ring	**FP-R56461**		Thermostat housing tube seals; Housing code 3905; Water pump codes 2004, 2023

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	**FP-R97351**		Flywheel housing codes 1403, 1404, 1405, 1406, 1407, 1410, 1411, 1421, 1422, 1425, 1432
1	Oil Pan Gasket	**FP-R119360**		w/Sheet metal pan; Oil pan code 1902; From Ser. No. 103,251; w/Cast iron oil pan
1	Oil Pan Gasket	**FP-R119360**		w/Sheet metal pan; Oil pan codes 1901, 1903, 1906; w/Cast iron oil pan
1	Oil Pan Gasket	**FP-R97342**		Oil pan codes 1904, 1905, 1910, 1913, 1919, 1932; w/Stamped Steel Pan
1	Block to End Plate Front Gskt	**FP-R131794**		Front plate codes 3601, 3602, 3604, 3695; R.H. side gear drive

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	**FP-PG219S**		
1	Complete Overhaul Gasket Set	**FP-RE38857**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE38857WS**		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R91708**		Cyl. block codes 4601, 4602, 4623; 2.0MM O/S OD; Balance shaft bushing
1	Cam Brg.	**FP-R119874**		R.H. Side gear drive

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	**FP-R57160S**		
6	Balance Shaft Bearing	**FP-R57160**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	**FP-RE61767**		RePower Engs. DD14964, DD14965; w/Cooler codes 5904, 5906, 5908, 5914, 5916, 5995; w/6 plates; From Ser. No. 185,224
1	Washer	**FP-R105714**		Oil cooler; Oil Cooler codes 5901, 5904, 5905, 5906, 5907
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; w/Behr cooler codes 5904, 5906, 5908, 5914, 5916; To Ser. No. 185,223; 2.700" X 3.000" X .180"
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; RePower Engs. DD14964, DD14965, DD14966, DD14967; Oil cooler code 5995; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE20585**		
1	Oil Seal Kit	**FP-SK67942**		RePower Engs. DD14964, DD14966; Crankshaft codes 4701, 4702, 4707, 4710; Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		
1	O-Ring	**FP-H35244**		Crankshaft pulley; Crankshaft, Bearing codes 4701, 4702, 4708, 4710

(continued on next page)

52 (cont.) *Forklift* 4039D Eng. *Crawler Tractor* 4039D Eng. *Excavator* 4039D Eng. *Backhoe* 4039D Eng.

3.9L 239 (3917cc) OHV Diesel L4 (Litre Engine), 106mm Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	SEALS - FRONT CRANK (cont.)	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-H35244		Crankshaft pulley; RePower Engs. DD14965, DD14967; Crankshaft, Bearing codes 4701, 4702, 4708, 4710

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		Crankshaft, Bearing codes 4701, 4703; Flywheel housing codes 1403, 1404, 1405, 1406, 1407, 1410, 1411, 1421, 1422, 1425, 1432

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3004	STD	w/Flanged thrust brg.
1	Main Set	FP-MBK300410	10	w/Flanged thrust brg.
1	Main Set	FP-MBK300420	20	w/Flanged thrust brg.
1	Main Set	FP-MBK300430	30	w/Flanged thrust brg.
4	Plain Main Brg.	FP-RE27352	STD	w/Flangeless thrust brg.
4	Plain Main Brg.	FP-RE27353	10	w/Flangeless thrust brg.
4	Plain Main Brg.	FP-RE27360	20	w/Flangeless thrust brg.
4	Plain Main Brg.	FP-RE27368	30	w/Flangeless thrust brg.
1	Flanged Main Brg.	FP-RE521350	STD	
1	Flanged Main Brg.	FP-RE526754	10	
1	Flanged Main Brg.	FP-RE527235	20	
1	Flanged Main Brg.	FP-RE527236	30	
3	Thrust Washer	FP-R78598	STD	w/Thrust washer; Crank marked R120009, R121018; Note: Applications may use three or four thrust washers

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	FP-RE55343		Pump codes 5001, 5004; w/Pump housing marked R54615; From Ser. No. 427,376
1	O-Ring	FP-R61871		Oil pump inlet; Pump codes 5001, 5002, 5005, 5006, 5007; w/Pump housing marked R54615; To Ser. No. 427,375
1	O-Ring	FP-R74354		Oil pump outlet tube; Pump codes 5001, 5002; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck codes 1101, 1104, 1200, 1201, 1203, 1297, 1299

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	FP-R116281		
4	Liner w/Sealing Rings	FP-RE500023		
4	Cylinder Kit Complete	FP-RE30250	STD	w/Con. Rod marked R51727, R80034
4	Cyl. Liner Sealing Ring Kit	FP-AR65507		
4	Sealing Ring, Liner	FP-R48767		Rectangle; Top
4	Sealing Ring	FP-SLR2520		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-RE19282		
4	Piston Kit w/Pin & Retainers	FP-RE19282WP		
4	Pin	FP-R125754		1.38" pin dia.
8	Piston Pin Retainer	FP-M41029		For 1.38" pin dia.
4	Pin Bushing	FP-R55647		w/Con. Rod marked R51727, R80034; 1.3765" ID, 1.500" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-AR97517	STD	w/Con. Rod marked R56187, R116851
4	Rod Pair	FP-AR97653	10	w/Con. Rod marked R56187, R116851
4	Rod Pair	FP-AR97654	20	w/Con. Rod marked R56187, R116851
4	Rod Pair	FP-AR97655	30	w/Con. Rod marked R56187, R116851
4	Rod Pair	FP-RE27348	STD	Crankshaft codes 4702, 4708, 4710; Con. Rod codes 4801, 4802
4	Rod Pair	FP-RE27349	10	Crankshaft codes 4702, 4708, 4710; Con. Rod codes 4801, 4802
4	Rod Pair	FP-RE27358	20	Crankshaft codes 4702, 4708, 4710; Con. Rod codes 4801, 4802
4	Rod Pair	FP-RE27364	30	Crankshaft codes 4702, 4708, 4710; Con. Rod codes 4801, 4802
4	Rod Pair	FP-RE27348	STD	RePower Engs. DD14964, DD14965; w/Con. Rod marked R80034
4	Rod Pair	FP-RE27349	10	RePower Engs. DD14964, DD14965; w/Con. Rod marked R80034
4	Rod Pair	FP-RE27358	20	RePower Engs. DD14964, DD14965; w/Con. Rod marked R80034
4	Rod Pair	FP-RE27364	30	RePower Engs. DD14964, DD14965; w/Con. Rod marked R80034

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE507852	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66820	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

(continued on next page)

Forklift **4039D Eng.** *Crawler Tractor* **4039D Eng.** *Excavator* **4039D Eng.** *Backhoe* **4039D Eng.** **52**
3.9L 239 (3917cc) OHV Diesel L4 (Litre Engine), 106mm Bore **(cont.)**

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-239DIFK**		w/Con. Rod marked R80034; Incl. front & rear seals; Crankshaft codes 4702, 4708, 4710; Con. Rod codes 4801, 4802
1	Complete Overhaul Kit	**FP-239DOHK**		w/Con. Rod marked R80034; Incl. front & rear seals; Crankshaft codes 4702, 4708, 4710; Con. Rod codes 4801, 4802; Incl. Torque-To-Yield con. rod bolts

Backhoe **4039T Eng.** *Sprayer* **4039T Eng.** **53**
3.9L 239 (3917cc) OHV Turbo-Diesel L4 (Litre Engine), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R73521**		w/Stamped Steel Cover; Rocker arm cover codes 1101, 1102, 1104, 1106, 1110, 1114
1	Head Gasket	**FP-R125863**		From Ser. No. 300,000
1	Head Set	**FP-RE38851**		From Ser. No. 300,000

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	**FP-R98062**	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
4	Intake	**FP-R97490**	*15*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
4	Exhaust	**FP-R90692**	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
4	Exhaust	**FP-R97492**	*15*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
16	Keeper	**FP-R91889**		Exh. & Int.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	**FP-R85687**	*STD*	
4	Int.	**FP-R98335**		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
4	Int.	**FP-R98063**	*STD*	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-R26125**		Exh. & Int.; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	**FP-RE60005**		Exh. & Int.
1	Oil Filler Cap Gasket	**FP-T20328**		Oil filler neck codes 1101, 1104, 1201, 1202, 1203, 1206
1	Oil Filler Cap Gasket	**FP-R80135**		Oil filler neck codes 1204, 1205, 1207; L.H. Auxiliary drive

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	**FP-RE31617**		Exh. & Int.; From Ser. No. 300,000; Positive type
8	Valve Stem Seal	**FP-R87627**		Exh. & Int.; O-Ring type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	**FP-R53108**		3-Hole mount; Starting motor codes 3001, 3002, 3007, 3015, 3017, 3019

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	**FP-JD9449**		Front; Delco-Remy components; Codes 3114, 3115, 3116; 78 amp alternator
2	Ball Brg.	**FP-JD9449**		Front & Rear; Motorola components; Codes 3101, 3116, 3129; 12 Volt, 65 amp alternator
2	Ball Brg.	**FP-JD9449**		Front & Rear; Motorola components; Codes 3117, 3118, 3119, 3120; 24 Volt, 45 amp alternator
2	Ball Brg.	**FP-JD9449**		Front & Rear; Motorola No. 70D42076T02; Codes 3108, 3109, 3130; 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
4	Exhaust Manifold Gasket	**FP-R90658**		Exh. manifold codes 2803, 2806, 2819, 2822
1	Air Intake Gasket	**FP-R81275**		Int. manifold codes 1713, 1714, 1718

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	**FP-T20273**		Access cover
1	Timing Gear Cover Gasket	**FP-R97454**		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	**FP-T20073**		

(continued on next page)

53 (cont.) *Backhoe* 4039T Eng. *Sprayer* 4039T Eng.
3.9L 239 (3917cc) OHV Turbo-Diesel L4 (Litre Engine), 106mm Bore

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
4	Fuel Injector Nozzle	FP-RE36939		w/Injector marked 28484
4	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1602, 1603, 1604, 1613, 1615, 1619; Nozzle marked 28484; 9.270MM X 13.600MM X 5.080MM
4	Fuel Injector Seal	FP-R79605		Fuel line connection; RePower Engs.; Nozzle code 1695; 9.270MM X 13.600MM X 5.080MM
4	Fuel Injector Nut	FP-R79604		w/Injector marked 28484
2	Clamp	FP-R34766		Pump codes 3701, 3702, 3707, 3712
8	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1601, 1602, 1603, 1604, 1609, 1613, 1615, 1619, 1620, 1621, 1651
8	Washer Type Seal	FP-R51936		RePower Engs.; Leak-off & return line seals; Nozzle code 1695
4	Washer Type Seal	FP-R48000		Lower; w/Nozzle code 1604

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Pump codes 3701, 3702, 3703, 3704, 3706; For fuel filter & final filter; Transfer pump
1	O-Ring	FP-R26286		Fuel inj. pump codes 1602, 1603, 1609, 1614, 1618, 1623, 1624, 1643, 1646, 1664; Fuel inlet fitting seal
1	Fuel Transfer Pump Gasket	FP-R97350		Pump code 3799; Cover gskt.

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		Turbo codes 6501, 6506, 6512, 6513
1	Turbocharger Mounting Gasket	FP-R89879		
1	Turbocharger Oil Supply Gskt.	FP-R97348		Turbo code 6501

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	FP-R56812		w/Pump housing marked R90783
1	Water Pump Impeller	FP-R94419		Pump code 2021; w/Pump housing marked R73604, R100871, R111028
1	Water Pump Impeller	FP-R94419		Pump code 2022; w/Pump housing marked R55164
1	Water Pump Impeller	FP-R94419		Pump code 2026; w/Pump housing marked R100871, R111028
1	Water Pump Repair/Rebuild Kit	FP-864340979		w/Pump housing marked R51661, R73606, R73724, R79171
1	Water Pump Repair/Rebuild Kit	FP-944840979		w/Pump housing marked R52009
1	Water Pump Repair/Rebuild Kit	FP-RE62658		w/Pump housing marked R55164, R73604
1	Water Pump Repair/Rebuild Kit	FP-925740979		w/Pump housing marked R56787, R62902
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	FP-R55405		w/Pump housing marked R55164
1	Water Pump Housing Gasket	FP-R97455		w/Pump housing marked R73604, R100871, R111028
1	Water Pump Housing Gasket	FP-R56809		w/Pump housing marked R90783
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked R55164, R90783
1	Water Pump Mounting Gasket	FP-T20243		w/H/D Pump housing marked R100812, R127918
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R55164, R73604, R90783, R90784, R100871, R104648, R111028; w/Cast iron impeller marked T30897
1	O-Ring	FP-U13639		Coolant heater codes 2601, 2602; Adapter seal; 1.475" X .118"
1	Shaft & Bearing Assembly	FP-JD9257		w/Pump housing marked R55164, R73604, R100871, R111028
1	Shaft & Bearing Assembly	FP-JD8643		w/Pump housing marked R90783

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2207; Thermostat housing codes 3901, 3904; 180 Deg.
1	Thermostat	FP-RE33705		Thermostat housing codes 2204, 2207, 2208; 180 Deg.
1	Thermostat Gasket	FP-T20219		Single thermostat cover codes 2101, 2102, 2204, 3901
1	Thermostat Cover Gasket	FP-T20215		
1	Thermostat Cover Gasket	FP-R54638		Thermostat housing codes 3901, 3904; Thermostat cover codes 2102, 2108; w/Two thermostats
1	Therm. Hsg. - Water Mfld. Gsk	FP-R54641		Thermostat housing to cyl. head
2	O-Ring	FP-R56461		Thermostat housing tube seals; Housing code 3901

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Line Gasket	FP-R97346		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		Flywheel housing codes 1403, 1404, 1405, 1406, 1407, 1410, 1411, 1421, 1422, 1425, 1432
1	Oil Pan Gasket	FP-R119360		w/Sheet metal pan; Oil pan codes 1901, 1903, 1906; w/Cast iron oil pan
1	Oil Pan Gasket	FP-R97342		Oil pan codes 1904, 1905, 1908, 1910, 1913, 1919, 1932; w/Stamped Steel Pan

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ENGINE BLOCK & PARTS (cont.)

QTY	GASKETS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Block to End Plate Front Gskt	**FP-R131794**		Front plate codes 3601, 3602, 3604, 3695; R.H. side gear drive

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	**FP-PG219S**		
1	Complete Overhaul Gasket Set	**FP-RE38857**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE38857WS**		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R91708**		Cyl. block codes 4601, 4602, 4623; 2.0MM O/S OD; Balance shaft bushing
1	Cam Brg.	**FP-R119874**		R.H. Side gear drive

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	**FP-R57160S**		
6	Balance Shaft Bearing	**FP-R57160**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	**FP-RE61767**		RePower Engs. DD14964, DD14965; w/Cooler codes 5904, 5906, 5908, 5914, 5916, 5995; w/6 plates; From Ser. No. 185,224
1	Washer	**FP-R105714**		Oil cooler; Oil Cooler codes 5901, 5904, 5905, 5906, 5907
2	O-Ring	**FP-R52811**		Aftercooled; Adapter seal
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; w/Behr cooler codes 5904, 5906, 5908, 5914, 5916; To Ser. No. 185,223; 2.700" X 3.000" X .180"
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; RePower Engs. DD14964, DD14965, DD14966, DD14967; Oil cooler code 5995; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE20585**		
1	Oil Seal Kit	**FP-SK67942**		RePower Engs. DD14964, DD14965, DD14966, DD14967; Crankshaft codes 4701, 4702, 4703, 4707, 4708, 4710; Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		
1	O-Ring	**FP-H35244**		Crankshaft pulley; Pulley codes 1301, 1307, 1315; Crankshaft, Bearing codes 4701, 4702
1	O-Ring	**FP-H35244**		Crankshaft pulley; RePower Engs. DD14965, DD14967; Pulley codes 1301, 1307, 1315; Crankshaft, Bearing codes 4701, 4702

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		Crankshaft, Bearing codes 4701, 4703; Flywheel housing codes 1403, 1404, 1405, 1406, 1407, 1410, 1411, 1421, 1422, 1425, 1432

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3004**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300410**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300420**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300430**	*30*	w/Flanged thrust brg.
4	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
3	Thrust Washer	**FP-R78598**	*STD*	w/Thrust washer; Crank marked R120009, R121018; Note: Applications may use three or four thrust washers

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	**FP-RE55343**		Pump codes 5001, 5004; w/Pump housing marked R54615; From Ser. No. 427,376
1	O-Ring	**FP-R61871**		Oil pump inlet; Pump codes 5001, 5005, 5006, 5007; w/Pump housing marked R54615
1	O-Ring	**FP-R61871**		Oil pump inlet; RePower Engs.; Pump codes 5002, 5008; w/Pump housing marked R54615
1	O-Ring	**FP-R74354**		Oil pump outlet tube; Pump codes 5001, 5002, 5005, 5006, 5007, 5008; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1101, 1104, 1200, 1201, 1203, 1297, 1299

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53 (cont.) *Backhoe* **4039T Eng.** *Sprayer* **4039T Eng.**
3.9L 239 (3917cc) OHV Turbo-Diesel L4 (Litre Engine), 106mm Bore

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	**FP-R116281**		
4	Liner w/Sealing Rings	**FP-RE500023**		
4	Cylinder Kit Complete	**FP-RE33115**		w/Con. Rod marked R58979, R80032, R113612
4	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		
4	Sealing Ring, Liner	**FP-R48767**		Rectangle; Top
4	Sealing Ring, Liner	**FP-R26121**		Round; Middle
4	Sealing Ring	**FP-SLR2520**		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	**FP-RE48368**		
4	Piston Kit w/Pin & Retainers	**FP-RE48368WP**		
4	Pin	**FP-R124230**		1.62" pin dia.
8	Piston Pin Retainer	**FP-R54114**		For 1.62" pin dia.
4	Pin Bushing	**FP-R57451**		w/Con. Rod marked R80032, R113612, R122191; Rod, piston & liner codes 4039, 4802; 1.621" ID, 1.813" OD, 1.370" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-AR97517**	*STD*	w/Con. Rod marked R56187, R116851
4	Rod Pair	**FP-AR97653**	*10*	w/Con. Rod marked R56187, R116851
4	Rod Pair	**FP-AR97654**	*20*	w/Con. Rod marked R56187, R116851
4	Rod Pair	**FP-AR97655**	*30*	w/Con. Rod marked R56187, R116851
4	Rod Pair	**FP-RE27348**	*STD*	Crankshaft code 4702; Con. Rod code 4803
4	Rod Pair	**FP-RE27349**	*10*	Crankshaft code 4702; Con. Rod code 4803
4	Rod Pair	**FP-RE27358**	*20*	Crankshaft code 4702; Con. Rod code 4803
4	Rod Pair	**FP-RE27364**	*30*	Crankshaft code 4702; Con. Rod code 4803
4	Rod Pair	**FP-RE27348**	*STD*	RePower Engs. DD14964, DD14965; w/Con. Rod marked R80032
4	Rod Pair	**FP-RE27349**	*10*	RePower Engs. DD14964, DD14965; w/Con. Rod marked R80032
4	Rod Pair	**FP-RE27358**	*20*	RePower Engs. DD14964, DD14965; w/Con. Rod marked R80032
4	Rod Pair	**FP-RE27364**	*30*	RePower Engs. DD14964, DD14965; w/Con. Rod marked R80032

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	**FP-RE507852**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	**FP-RE66820**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-239TIFK**		w/Con. Rod marked R80032, R113612, R58979; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-239TOHK**		w/Con. Rod marked R80032, R113612, R56187, R58979; Incl. Torque-To-Yield con. rod bolts

54 *Forklift* **4241G Eng.** *Loader* **4241G Eng.** *Wheel Tractor* **4241G Eng.** *Loader Tractor* **4241G Eng.** *Dozer* **4241G Eng.** *Backhoe* **4241G Eng.**
3.9L 241 OHV L4, 4.25" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
16	Keeper	**FP-41339**		1 groove; Square cut key groove
16	Keeper	**FP-T20077**		1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	**VK-138B**		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-R26125**		2.1200" Free Height

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	Hour Meter Housing Gasket	**FP-R26173**		
1	Speed/Hour Meter Gasket	**FP-R44853**		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Front Timing Cover Gasket	**FP-R26084**		

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	**FP-R52773**		

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Forklift 4241G Eng. *Loader* 4241G Eng. *Wheel Tractor* 4241G Eng. *Loader Tractor* 4241G Eng. *Dozer* 4241G Eng. *Backhoe* 4241G Eng. (cont.) — 54

3.9L 241 OHV L4, 4.25" Bore

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Shaft & Bearing Assembly	FP-JD9355		w/Pump housing marked R41313, R41317, R44116, R44119, R48742

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-R36846		w/Housing marked R41853, R42664; 180 Deg. to 200 Deg. range
1	Thermostat Cover Gasket	FP-R42694		One hole

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-B3586R		Oil filter cover packing

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-3R46903	STD	
3	Cam Brg.	FP-R46903	STD	

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-AR49025		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE22764		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3001	STD	w/Flanged brg.
1	Main Set	FP-MBK300110	10	w/Flanged brg.
1	Main Set	FP-MBK300120	20	w/Flanged brg.
1	Main Set	FP-MBK300130	30	w/Flanged brg.
1	Main Set	FP-MBK300	STD	w/Thrust washer
1	Main Set	FP-MBK30010	10	w/Thrust washer
1	Main Set	FP-MBK30020	20	w/Thrust washer
1	Main Set	FP-MBK30030	30	w/Thrust washer

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-A4730R		Dipstick
1	O-Ring	FP-R495R		Pump intake tube; Smooth
1	Oil Filter Seal Ring	FP-R26163		Filter body
1	Oil Filter Housing Gasket	FP-R26354		

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Sealing Ring, Liner	FP-112847		To Ser. No. 357,083

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	FP-3129YA20		1.252" ID, 1.3785" OD, 1.510" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-AR45723	STD	
4	Rod Pair	FP-AR46396	10	
4	Rod Pair	FP-AR46397	20	
4	Rod Pair	FP-AR46398	30	

Loader 4241LP Eng. (LPG). *Wheel Tractor* 4241LP Eng. (LPG). *Loader Tractor* 4241LP Eng. (LPG). — 55

3.9L 241 OHV LPG L4, 4.25" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
16	Keeper	FP-41339		1 groove; Square cut key groove
16	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-R26125		2.1200" Free Height

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	Hour Meter Housing Gasket	FP-R26173		
1	Speed/Hour Meter Gasket	FP-R44853		

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55 (cont.) *Loader* **4241LP Eng. (LPG).** *Wheel Tractor* **4241LP Eng. (LPG).** *Loader Tractor* **4241LP Eng. (LPG).**
3.9L 241 OHV LPG L4, 4.25" Bore

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Front Timing Cover Gasket	**FP-R26084**		

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	**FP-R52773**		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Shaft & Bearing Assembly	**FP-JD9355**		w/Pump housing marked R41313, R41317, R44116, R44119, R48742

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	**FP-R36846**		w/Housing marked R41853, R42664; 180 Deg. to 200 Deg. range
1	Thermostat Cover Gasket	**FP-R42694**		One hole

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Washer	**FP-B3586R**		Oil filter cover packing

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-3R46903**	*STD*	
3	Cam Brg.	**FP-R46903**	*STD*	

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE22764**		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3001**	*STD*	w/Flanged brg.
1	Main Set	**FP-MBK300110**	*10*	w/Flanged brg.
1	Main Set	**FP-MBK300120**	*20*	w/Flanged brg.
1	Main Set	**FP-MBK300130**	*30*	w/Flanged brg.
1	Main Set	**FP-MBK300**	*STD*	w/Thrust washer
1	Main Set	**FP-MBK30010**	*10*	w/Thrust washer
1	Main Set	**FP-MBK30020**	*20*	w/Thrust washer
1	Main Set	**FP-MBK30030**	*30*	w/Thrust washer

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	O-Ring	**FP-A4730R**		Dipstick
1	O-Ring	**FP-R495R**		Pump intake tube; Smooth
1	Oil Filter Seal Ring	**FP-R26163**		Filter body
1	Oil Filter Housing Gasket	**FP-R26354**		

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Sealing Ring, Liner	**FP-112847**		To Ser. No. 357,083

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	**FP-3129YA20**		1.252" ID, 1.3785" OD, 1.510" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-AR45723**	*STD*	
4	Rod Pair	**FP-AR46396**	*10*	
4	Rod Pair	**FP-AR46397**	*20*	
4	Rod Pair	**FP-AR46398**	*30*	

56 *Wheel Tractor* **4241NG Eng. (Natural Gas).** *Loader Tractor* **4241NG Eng. (Natural Gas).**
3.9L 241 OHV NG L4, 4.25" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
16	Keeper	**FP-41339**		1 groove; Square cut key groove
16	Keeper	**FP-T20077**		1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	**VK-138B**		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-R26125**		2.1200" Free Height

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Wheel Tractor **4241NG Eng. (Natural Gas).** *Loader Tractor* **4241NG Eng. (Natural Gas).** **56**
3.9L 241 OHV NG L4, 4.25" Bore **(cont.)**

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	Hour Meter Housing Gasket	FP-R26173		
1	Speed/Hour Meter Gasket	FP-R44853		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Front Timing Cover Gasket	FP-R26084		

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	FP-R52773		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Shaft & Bearing Assembly	FP-JD9355		w/Pump housing marked R41313, R41317, R44116, R44119, R48742

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-R36846		w/Housing marked R41853, R42664; 180 Deg. to 200 Deg. range
1	Thermostat Cover Gasket	FP-R42694		One hole

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-B3586R		Oil filter cover packing

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-3R46903	*STD*	
3	Cam Brg.	FP-R46903	*STD*	

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-AR49025		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE22764		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3001	*STD*	w/Flanged brg.
1	Main Set	FP-MBK300110	*10*	w/Flanged brg.
1	Main Set	FP-MBK300120	*20*	w/Flanged brg.
1	Main Set	FP-MBK300130	*30*	w/Flanged brg.
1	Main Set	FP-MBK300	*STD*	w/Thrust washer
1	Main Set	FP-MBK30010	*10*	w/Thrust washer
1	Main Set	FP-MBK30020	*20*	w/Thrust washer
1	Main Set	FP-MBK30030	*30*	w/Thrust washer

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-A4730R		Dipstick
1	O-Ring	FP-R495R		Pump intake tube; Smooth
1	Oil Filter Seal Ring	FP-R26163		Filter body
1	Oil Filter Housing Gasket	FP-R26354		

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Sealing Ring, Liner	FP-112847		To Ser. No. 357,083

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	FP-3129YA20		1.252" ID, 1.3785" OD, 1.510" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-AR45723	*STD*	
4	Rod Pair	FP-AR46396	*10*	
4	Rod Pair	FP-AR46397	*20*	
4	Rod Pair	FP-AR46398	*30*	

Combine **248G Eng. (Gas or LPG).** *Power Unit* **248G Eng. (Gas or LPG).** **57**
4.1L 248 OHV L6, 3.875" Bore

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

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57 (cont.) *Combine* 248G Eng. (Gas or LPG). *Power Unit* 248G Eng. (Gas or LPG).
4.1L 248 OHV L6, 3.875" Bore

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	FP-2599Y20		

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-2595A	STD	A-Series aluminum bearings
6	Rod Pair	FP-2595A10	10	A-Series aluminum bearings
6	Rod Pair	FP-2595A20	20	A-Series aluminum bearings
6	Rod Pair	FP-2595A30	30	A-Series aluminum bearings

58 *Combine* 248D Eng. *Power Unit* 248D Eng.
4.1L 248 OHV Diesel L6, 3.875" Bore

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	FP-2599Y20		

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-2595A	STD	A-Series aluminum bearings
6	Rod Pair	FP-2595A10	10	A-Series aluminum bearings
6	Rod Pair	FP-2595A20	20	A-Series aluminum bearings
6	Rod Pair	FP-2595A30	30	A-Series aluminum bearings

59 *Loader* 254D Eng. *Power Unit* 254D Eng. *Wheel Tractor* 254D Eng.
4.2L 254 OHV Diesel L4, 4.125" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R26124	STD	1.7770" Head Dia., .3720" Stem Dia., 6.2580" O.A.L.
4	Exhaust	FP-R26123	STD	1.5900" Head Dia., .3720" Stem Dia., 6.2580" O.A.L.
4	Exhaust	FP-V4100	STD	1.5900" Head Dia., .3720" Stem Dia., 6.2580" O.A.L.
16	Keeper	FP-B367R		2 groove
16	Keeper	VK-66R		2 groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	245-1625-1 Std Only		1.6300" OD, 1.3750" ID, .2160" Depth

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	FP-R28654		.3750" ID, 3.3130" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	ST-2004		Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal Bulk	ST-2004BC		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-3R46903	STD	
3	Cam Brg.	FP-R46903	STD	

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-AR49025		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE22764		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK400E4	STD	w/Flanged brg.; w/Block marked R26150, R26160
1	Main Set	FP-MBK400E410	10	w/Flanged brg.; w/Block marked R26150, R26160
1	Main Set	FP-MBK400E420	20	w/Flanged brg.; w/Block marked R26150, R26160
1	Main Set	FP-MBK400E430	30	w/Flanged brg.; w/Block marked R26150, R26160
1	Main Set	FP-MBK400L4	STD	w/Thrust washer; w/Block marked R40910, R40920, R46350, R46430, R49540
1	Main Set	FP-MBK400L410	10	w/Thrust washer; w/Block marked R40910, R40920, R46350, R46430, R49540

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Loader **254D Eng.** *Power Unit* **254D Eng.** *Wheel Tractor* **254D Eng.** **59**
4.2L 254 OHV Diesel L4, 4.125" Bore **(cont.)**

CRANKSHAFT/OIL PUMP (cont.)

QTY	MAIN BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK400L420**	*20*	w/Thrust washer; w/Block marked R40910, R40920, R46350, R46430, R49540

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	**FP-R32050**	*STD*	OVERBORE To 4.250"
4	Liner w/Sealing Rings	**FP-R32050WS**	*STD*	OVERBORE To 4.250"
4	Cylinder Kit Complete	**FP-RE23173**	*STD*	OVERBORE To 4.250"
4	Sealing Ring, Liner	**FP-112847**		OVERBORE To 4.250"

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Kit w/Pin & Retainers	**FP-RE23172WP**	*STD*	OVERBORE To 4.250"
4	Pin Bushing	**FP-R30939**		
4	Pin Bushing	**FP-3129YA20**		1.252" ID, 1.3785" OD, 1.510" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-AR45723**	*STD*	
4	Rod Pair	**FP-AR46396**	*10*	
4	Rod Pair	**FP-AR46397**	*20*	
4	Rod Pair	**FP-AR46398**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	**FP-AR55630**	*STD*	OVERBORE To 4.250"; 1-1/8, 1-3/32, 1-1/4 (1 cyl. set)
2	Premium Set	**FP-AR55630S**	*STD*	OVERBORE To 4.250"; 2-1/8, 2-3/32, 2-1/4 (2 cyl. set)
4	Premium Single Cylinder Set	**W-9348KX +** Std Only		OVERBORE To 4.250"; 1-1/8, 1-3/32, 1-1/4 (2 cyl. set); When depleted use FP-AR55630

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	**FP-270EOHK**		OVERBORE To 4.250"; Model 3010; w/Block marked R26150, R26160; Incl. Torque-To-Yield con. rod bolts

Loader **4270D Eng.** *Wheel Tractor* **4270D Eng.** *Loader Tractor* **4270D Eng.** *Backhoe* **4270D Eng.** **60**
4.4L 270 OHV Diesel L4, 4.25" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R49865**		
1	Head Gasket	**FP-R48292**		From Ser. No. 280,001
1	Head Gasket	**FP-R45616**		To Ser. No. 280,000
1	Head Set	**FP-AR53034**		From Ser. No. 280,001
1	Head Set	**FP-AR53032**		To Ser. No. 280,000

QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
4	Head Bolt	**FP-R88042**		w/Block marked R40620, R40700, R40910, R45950, R47520, R48430, R50610, R72127; From Ser. No. 280,001; 3.250" length
3	Head Bolt	**FP-R88043**		w/Block marked R40620, R40700, R40910, R45950, R47520, R48430, R50610, R72127; From Ser. No. 280,001; 5.250" length
6	Head Bolt	**FP-R88044**		w/Block marked R40620, R40700, R40910, R45950, R47520, R48430, R50610, R72127; From Ser. No. 280,001; 6.250" length
5	Head Bolt	**FP-R88045**		w/Block marked R40620, R40700, R40910, R45950, R47520, R48430, R50610, R72127; From Ser. No. 280,001; 7.250" length

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	**FP-R44174**	*STD*	From Ser. No. 157,002 to Ser. No. 280,000; 2 groove; Chrome plated stem; 1.9020" Head Dia., .3720" Stem Dia., 6.2450" O.A.L.
4	Intake	**FP-R43883**	*STD*	From Ser. No. 280,001; 1 groove; Chrome plated stem; 1.9020" Head Dia., .3720" Stem Dia., 6.1510" O.A.L.
4	Intake	**FP-R45003**	*3*	From Ser. No. 280,001; 1 groove; Chrome plated stem; 1.9020" Head Dia., .3750" Stem Dia., 6.1510" O.A.L.
4	Intake	**FP-R45005**	*30*	From Ser. No. 280,001; 1 groove; Chrome plated stem; 1.9020" Head Dia., .4020" Stem Dia., 6.1510" O.A.L.
4	Intake	**FP-R26124**	*STD*	To Ser. No. 157,001; 1.7770" Head Dia., .3720" Stem Dia., 6.2580" O.A.L.

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60 (cont.) *Loader* 4270D Eng. *Wheel Tractor* 4270D Eng. *Loader Tractor* 4270D Eng. *Backhoe* 4270D Eng.

4.4L 270 OHV Diesel L4, 4.25" Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE (cont.)	PART NO.	SIZE	DESCRIPTION
4	Exhaust	FP-R44175	STD	From Ser. No. 157,002 to Ser. No. 280,000; 2 groove; Chrome plated stem; 1.7150" Head Dia., .3720" Stem Dia., 6.2270" O.A.L.
4	Exhaust	FP-R43679	STD	From Ser. No. 280,001; 1 groove; Chrome plated stem; 1.7150" Head Dia., .3720" Stem Dia., 6.1330" O.A.L.
4	Exhaust	FP-R43787	3	From Ser. No. 280,001; 1 groove; Chrome plated stem; 1.7150" Head Dia., .3750" Stem Dia., 6.1330" O.A.L.
4	Exhaust	FP-R43788	15	From Ser. No. 280,001; 1 groove; Chrome plated stem; 1.7150" Head Dia., .3870" Stem Dia., 6.1330" O.A.L.
4	Exhaust	FP-R43789	30	From Ser. No. 280,001; 1 groove; Chrome plated stem; 1.7150" Head Dia., .4020" Stem Dia., 6.1330" O.A.L.
4	Exhaust	FP-R26123	STD	To Ser. No. 157,001; 1.5900" Head Dia., .3720" Stem Dia., 6.2580" O.A.L.
16	Keeper	FP-B367R		Model JD500 To Ser. No. 123,113; 2 groove
16	Keeper	VK-66R		Model JD500 To Ser. No. 123,113; 2 groove; Hardened
16	Keeper	FP-41339		Model 3020 From Ser. No. 123,000; 1 groove; Square cut key groove
16	Keeper	FP-T20077		Model 3020 From Ser. No. 123,000; 1 groove; Square cut key groove; Hardened
16	Keeper	FP-B367R		Model 3020 To Ser. No. 122,999; 2 groove
16	Keeper	VK-66R		Model 3020 To Ser. No. 122,999; 2 groove; Hardened
16	Keeper	FP-41339		Models JD500A, JD500B From Ser. No. 123,114; 1 groove; Square cut key groove
16	Keeper	FP-T20077		Models JD500A, JD500B From Ser. No. 123,114; 1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	VK-138B		Model 3020 From Ser. No. 123,000; 1 groove; Square cut key groove; Carton of 1000
16	Keeper, Bulk	VK-138B		Models JD500A, JD500B From Ser. No. 123,114; 1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	FP-R43681	STD	1.7555" OD, 1.5000" ID, .2480" Depth
4	Int.	FP-R43680	STD	

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	FP-R28654		Model JD500 To Ser. No. 123,113; .3750" ID, 3.3130" O.A.L.
8	Guide	FP-R28654		Model 3020 To Ser. No. 122,999; .3750" ID, 3.3130" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
4	Rotocap	FP-RE11410		Exh.; Model 3020 From Ser. No. 123,000
4	Rotocap	FP-RE11410		Exh.; Models JD500A, JD500B From Ser. No. 123,114

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
4	Valve Stem Seal	ST-2011		Int.; Model JD500 To Ser. No. 123,113; Positive type; Rubber/PTFE
4	Valve Stem Seal	ST-2011		Int.; Model 3020 To Ser. No. 122,999; Positive type; Rubber/PTFE
4	Valve Stem Seal Bulk	ST-2011BC		Int.; Model JD500 To Ser. No. 123,113; Positive type; Carton of 100; Rubber/PTFE
4	Valve Stem Seal Bulk	ST-2011BC		Int.; Model 3020 To Ser. No. 122,999; Positive type; Carton of 100; Rubber/PTFE

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	Hour Meter Housing Gasket	FP-R26173		
1	Speed/Hour Meter Gasket	FP-R44853		

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	FP-R83021		One Exh. hole
2	Exhaust Manifold Gasket	FP-R83020		Two Exh. holes
2	Intake Manifold Gasket	FP-R26297		
1	Cyl. Block Valley Cover Gskt.	FP-R46192		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	FP-R26058		
1	Front Timing Cover Gasket	FP-R26084		

(continued on next page)

Loader **4270D Eng.** *Wheel Tractor* **4270D Eng.** *Loader Tractor* **4270D Eng.** *Backhoe* **4270D Eng.** **60 (cont.)**

4.4L 270 OHV Diesel L4, 4.25" Bore

CAMSHAFT GROUP (cont.)

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	**FP-R26115**		
8	Lifter	**FP-R52773**		From Ser. No. 280,001
8	Lifter	**FP-R26342**		To Ser. No. 280,000

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
8	Clamp	**FP-R34766**		From Ser. No. 68,000

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	**FP-RE42211**		From Ser. No. 280,001; Transfer pump
1	Mechanical Fuel Pump	**FP-RE43273**		To Ser. No. 280,000

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	**FP-R40979**		w/Pump housing marked R41315, R44122
1	Water Pump Repair/Rebuild Kit	**FP-AR55617**		w/Pump housing marked R26337, R27547, R34964
1	Water Pump Repair/Rebuild Kit	**FP-AR98564**		w/Pump housing marked R34964
1	Water Pump Repair/Rebuild Kit	**FP-AR55619**		w/Pump housing marked R41315, R41318, R44122, R48743
1	Water Pump Housing Gasket	**FP-R26343**		w/Pump housing marked R41315, R44122
1	Water Pump Mounting Gasket	**FP-R26341**		w/Pump housing marked R41315, R44122
4	O-Ring	**FP-T13119**		Manifold bypass tubes
1	Shaft & Bearing Assembly	**FP-JD9212**		w/Pump housing marked R26337, R27544, R34977, R34982
1	Shaft & Bearing Assembly	**FP-JD9355**		w/Pump housing marked R41315, R41318, R44122, R48743

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	**FP-R36846**		w/Housing marked R41853, R42664; 180 Deg. to 200 Deg. range
1	Thermostat Cover Gasket	**FP-R42694**		One hole

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	**FP-R88397**		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	**FP-R71917**		To Ser. No. 280,000
1	Oil Pan Gasket Set	**FP-PG402PS**		To Ser. No. 280,000
1	Washer	**FP-B3586R**		Oil filter cover packing

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	**FP-PG270LS**		From Ser. No. 280,001
1	In-Frame Gasket Set	**FP-PG270ES**		To Ser. No. 280,000
1	Complete Overhaul Gasket Set	**FP-AR53035**		From Ser. No. 280,001; Crankshaft oil seals not incl.
1	Complete Overhaul Gasket Set	**FP-AR53035WS**		From Ser. No. 280,001; Incl. Crankshaft oil seals
1	Complete Overhaul Gasket Set	**FP-AR53033WS**		To Ser. No. 280,000; Compl.; Incl. RMB seal w/wear sleeve; Incl. timing cover seal w/ wear sleeve
1	Complete Overhaul Gasket Set	**FP-AR53033**		To Ser. No. 280,000; RMB seal w/wear sleeve not incl.; Timing cover seal w/wear sleeve not incl.
1	Kit Gasket Set	**260-1395 +**		From Ser. No. 123,000 Model 3020; From Ser. No. 123,114 Models JD500A, JD500B; Compl.; Incl. RMB seal & wear sleeve; Incl. timing cover seal & wear sleeve; When depleted use FP-AR53035WS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-3R46903**	*STD*	
3	Cam Brg.	**FP-R46903**	*STD*	

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler Base Hsg. Gasket	**FP-R34110**		To Ser. No. 280,000
1	Oil Cooler Base Gasket	**FP-R34109**		
1	Oil Cooler Top Gasket	**FP-R32123**		

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-AR40485**		Crankshaft marked R40570
1	Crankshaft	**FP-AR26428**		To Ser. No. 122,999; w/Balancer drive gears; Crankshaft marked R26540, R46498
1	Oil Seal Kit	**FP-SK49025**		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE22764**		PTFE

(continued on next page)

60 (cont.) *Loader* 4270D Eng. *Wheel Tractor* 4270D Eng. *Loader Tractor* 4270D Eng. *Backhoe* 4270D Eng.

4.4L 270 OHV Diesel L4, 4.25" Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK400L4	STD	From Ser. No. 280,001
1	Main Set	FP-MBK400L410	10	From Ser. No. 280,001
1	Main Set	FP-MBK400L420	20	From Ser. No. 280,001
1	Main Set	FP-MBK400E4	STD	To Ser. No. 280,000; w/Flanged brg.
1	Main Set	FP-MBK400E410	10	To Ser. No. 280,000; w/Flanged brg.
1	Main Set	FP-MBK400E420	20	To Ser. No. 280,000; w/Flanged brg.
1	Main Set	FP-MBK400E430	30	To Ser. No. 280,000; w/Flanged brg.
4	Plain Main Brg.	FP-AR74814	STD	From Ser. No. 280,001
4	Plain Main Brg.	FP-AR74816	10	From Ser. No. 280,001
4	Plain Main Brg.	FP-AR74817	20	From Ser. No. 280,001
4	Plain Main Brg.	FP-AR74818	30	From Ser. No. 280,001
4	Plain Main Brg.	FP-AR49243	STD	To Ser. No. 280,000
4	Plain Main Brg.	FP-AR49245	10	To Ser. No. 280,000
4	Plain Main Brg.	FP-AR49246	20	To Ser. No. 280,000
4	Plain Main Brg.	FP-AR49247	30	To Ser. No. 280,000
1	Flanged Main Brg.	FP-AR77748	STD	
1	Flanged Main Brg.	FP-AR77750	10	
1	Flanged Main Brg.	FP-AR77751	20	
1	Flanged Main Brg.	FP-AR77752	30	
1	Flanged Main Brg.	FP-AR77754	STD	Flangeless; To Ser. No. 280,000
1	Flanged Main Brg.	FP-AR77756	10	Flangeless; To Ser. No. 280,000
1	Flanged Main Brg.	FP-AR77757	20	Flangeless; To Ser. No. 280,000
1	Flanged Main Brg.	FP-AR77758	30	Flangeless; To Ser. No. 280,000
1	Flanged Main Brg.	FP-AR49242	STD	To Ser. No. 280,000
1	Flanged Main Brg.	FP-AR49238	10	To Ser. No. 280,000
1	Flanged Main Brg.	FP-AR49239	20	To Ser. No. 280,000
1	Flanged Main Brg.	FP-AR49240	30	To Ser. No. 280,000
1	Thrust Washer Set	FP-AR77747	STD	Use w/Flangeless main brg.

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump Spring	FP-R26151		
2	O-Ring	FP-A4730R		Dipstick
1	O-Ring	FP-R495R		Pump intake tube; Smooth
1	O-Ring	FP-R495R		Ventilator tube; Smooth
1	Oil Filter Seal Ring	FP-R26163		Filter body
1	Oil Filter Housing Gasket	FP-R26354		

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	FP-R40615	STD	Model 3020 From Ser. No. 123,000
4	Liner w/o Sealing Ring	FP-R40615	STD	Model 3020 To Ser. No. 122,999 w/Block marked R40930
4	Liner w/o Sealing Ring	FP-R40615	STD	Models JD500, JD500A, JD500B From Ser. No. 123,114
4	Liner w/o Sealing Ring	FP-R40615	STD	Models JD500, JD500A, JD500B To Ser. No. 123,113 w/Block marked R40930
4	Liner w/o Sealing Ring	FP-R32050	STD	To Ser. No. 280,000
4	Liner w/Sealing Rings	FP-R40615WS	STD	Model 3020 From Ser. No. 123,000
4	Liner w/Sealing Rings	FP-R40615WS	STD	Model 3020 To Ser. No. 122,999 w/Block marked R40930
4	Liner w/Sealing Rings	FP-R40615WS	STD	Models JD500, JD500A, JD500B From Ser. No. 123,114
4	Liner w/Sealing Rings	FP-R40615WS	STD	Models JD500, JD500A, JD500B To Ser. No. 123,113 w/Block marked R40930
4	Liner w/Sealing Rings	FP-R32050WS	STD	To Ser. No. 280,000
4	Cylinder Kit Complete	FP-RE23173	STD	w/Block marked R26160, R32020, R40850, R46385; w/Con. Rod marked R26047, R52225, R58880, R66923; To Ser. No. 280,000
4	Cylinder Kit Complete	FP-LKRE23163	STD	w/Block marked R26160, R32020, R40850, R46385; w/Con. Rod marked R26047, R52225, R58880, R69923; To Ser. No. 280,000; High Ring
4	Cylinder Kit Complete	FP-RE23165	STD	w/Block marked R40620, R40700, R47520, R45950, R48430, R50610, R72127; w/Con. Rod marked R26047, R52225, R58880, R66923; From Ser. No. 280,001
4	Cylinder Kit Complete	FP-RE23170	STD	Replacement Block; w/Block marked R46350, R46430, R40910; w/Con. Rod marked R26047, R52225, R58880, R66923; To Ser. No. 280,000
4	Cyl. Liner Sealing Ring Kit	FP-AR65507		
4	Cyl. Liner Sealing Ring Kit	FP-AR40155		To Ser. No. 280,000
4	Sealing Ring, Liner	FP-R48767		Rectangle; Top
4	Sealing Ring, Liner	FP-R26121		Round; Middle
4	Sealing Ring, Liner	FP-112847		To Ser. No. 357,083
4	Sealing Ring	FP-SLR2520		From Ser. No. 123,000; Round; Bottom

(continued on next page)

Loader 4270D Eng. *Wheel Tractor* 4270D Eng. *Loader Tractor* 4270D Eng. *Backhoe* 4270D Eng. (cont.) — 60

4.4L 270 OHV Diesel L4, 4.25" Bore

CYLINDER COMPONENTS (cont.)

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-RE23168		From Ser. No. 280,001
4	Piston Body w/o Pin	FP-RE23172		Replacement Block; To Ser. No. 280,000
4	Piston Kit w/Pin & Retainers	FP-RE23168WP	*STD*	From Ser. No. 280,001
4	Piston Kit w/Pin & Retainers	FP-RE23172WP	*STD*	Replacement Block; To Ser. No. 280,000
4	Pin	FP-R44161		
8	Piston Pin Retainer	FP-H80753		To Ser. No. 280,000
4	Pin Bushing	FP-R30939		w/Con. Rod marked R26047, R52225, R58880, R66923
4	Pin Bushing	FP-3129YA20		1.252" ID, 1.3785" OD, 1.510" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	FP-R66452		w/Con. Rod marked R26047, R52225, R58880, R66923; Torque-To-Yield bolt; Replacement recommended
4	Rod Pair	FP-AR45723	*STD*	
4	Rod Pair	FP-AR46396	*10*	
4	Rod Pair	FP-AR46397	*20*	
4	Rod Pair	FP-AR46398	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-AR55630	*STD*	Check piston grooving before supplying ring set; 1-1/8, 1-3/32, 1-1/4 (1 cyl. set)
2	Premium Set	FP-AR55630S	*STD*	Check piston grooving before supplying ring set; 2-1/8, 2-3/32, 2-1/4 (2 cyl. set)
4	Premium Single Cylinder Set	W-9348KX + Std Only		Check piston grooving before supplying ring set; 1-1/8, 1-3/32, 1-1/4 (2 cyl. set); When depleted use FP-AR55630

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-270EIFK		w/Block marked R26160, R32020, R40850, R46385; w/Con. Rod marked R26047, R52225, R58880, R66923; To Ser. No. 280,000; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	FP-270LIFK		w/Block marked R40620, R40700, R47520, R45950, R48430, R50610, R72127; w/Con. Rod marked R26047, R52225, R58880, R66923; From Ser. No. 280,001; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	FP-270RBIFK		Replacement Block; w/Block marked R46350, R46430, R40910; w/Con. Rod marked R26047, R52225, R58880, R66923; To Ser. No. 280,000; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-270EOHK		w/Block marked R26160, R32020, R40850, R46385; w/Con. Rod marked R26047, R52225, R58880, R66923; To Ser. No. 280,000; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-270LOHK		w/Block marked R40620, R40700, R47520, R45950, R48430, R50610, R72127; w/Con. Rod marked R26047, R52225, R58880, R66923; From Ser. No. 280,001; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-270RBOHK		Replacement Block; w/Block marked R46350, R46430, R40910; w/Con. Rod marked R26047, R52225, R58880, R66923; To Ser. No. 280,000; Incl. Torque-To-Yield con. rod bolts

Power Unit 4045H PowerTech Eng. (2-Valve Cyl. Head). *Wheel Tractor* 4045H PowerTech Eng. (2-Valve Cyl. Head). *Crawler Tractor* 4045H PowerTech Eng. (2-Valve Cyl. Head). *Loader Tractor* 4045H PowerTech Eng. (2-Valve Cyl. Head). *Forestry Tractor* 4045H PowerTech Eng. (2-Valve Cyl. Head). *Excavator* 4045H PowerTech Eng. (2-Valve Cyl. Head). *Integrated Tool Carrier* 4045H PowerTech Eng. (2-Valve Cyl. Head). *Telehandler* 4045H PowerTech Eng. (2-Valve Cyl. Head). — 61

4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 2V IC), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123542		
1	Head Gasket	FP-R116515		
1	Head Set	FP-RE66082		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R98062	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
4	Intake	FP-R97490	*15*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
4	Exhaust	FP-R90692	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.

(continued on next page)

+ Superseded Part Number

61 (cont.) *Power Unit* **4045H PowerTech Eng. (2-Valve Cyl. Head).** *Wheel Tractor* **4045H PowerTech Eng. (2-Valve Cyl. Head).** *Crawler Tractor* **4045H PowerTech Eng. (2-Valve Cyl. Head).** *Loader Tractor* **4045H PowerTech Eng. (2-Valve Cyl. Head).** *Forestry Tractor* **4045H PowerTech Eng. (2-Valve Cyl. Head).** *Excavator* **4045H PowerTech Eng. (2-Valve Cyl. Head).** *Integrated Tool Carrier* **4045H PowerTech Eng. (2-Valve Cyl. Head).** *Telehandler* **4045H PowerTech Eng. (2-Valve Cyl. Head).**
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 2V IC), 106mm Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE (cont.)	PART NO.	SIZE	DESCRIPTION
4	Exhaust	**FP-R97492**	*15*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
16	Keeper	**FP-R91889**		Exh. & Int.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	**FP-R85687**	*STD*	
4	Int.	**FP-R98335**		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
4	Int.	**FP-R98063**	*STD*	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-R26125**		Exh. & Int.; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	**FP-RE60005**		Exh. & Int.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	**FP-RE31617**		Exh. & Int.; Positive type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	**FP-R53108**		3-Hole mount; Starting motor codes 3005, 3006, 3010, 3011, 3012

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
4	Fuel Injector Nozzle	**FP-RE48786**		Nozzle codes 16BF, 16CE, 16CM, 16GL, 16LP, 16LQ, 16NH, 160R, 160S, 1606, 1608, 1675, 1677, 1682, 1683, 1692, 1694, 1695
4	Fuel Injector Nozzle	**FP-RE48786**		4045H Engs.; Nozzle codes 160B, 160C, 1610, 1611, 1656, 1667
4	Fuel Injector Seal	**FP-R92352**		Upper packing; w/Injector nozzle codes 16BF, 16CE, 16CM, 16CV, 16GL, 16LP, 16LQ, 16NH, 16OR, 1605, 1606, 1608, 1656, 1667, 1675, 1677, 1682, 1683, 1692, 1694, 1695
4	Fuel Injector Seal	**FP-R92352**		4045H Engs.; Upper packing; w/Injector nozzle codes 160B, 160C, 1610, 1611
4	Fuel Injector Nut	**FP-R79604**		w/Injector nozzle codes 16HM, 16HN, 16HP, 16HQ, 16LK, 16LL
1	Washer Type Seal	**FP-R51936**		Aux. drive line; Line codes 5201, 5202, 5203, 5205, 5206
2	Washer Type Seal	**FP-R51936**		Fuel line; Aftercooled; Line codes 160B, 1611
2	Washer Type Seal	**FP-R51936**		Fuel line; Line codes 16BF, 16CE, 16CM, 16CV, 16GL, 16LN, 16LP, 16LQ, 16NH, 16OR, 1605, 1671, 1677, 1682

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	**FP-RE500737 ***		Standard flow
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked RE70683

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	**FP-R97342**		Oil pan codes 1904, 1905; w/Stamped Steel Pan
2	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R119874**		

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
4	Balance Shaft Bearing	**FP-R115299**		4045H Engs.; Balance shaft code 4501

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Plain Main Brg.	**FP-RE65165**	*STD*	Crankshaft and Bearing code 4701
4	Plain Main Brg.	**FP-RE65911**	*.25MM*	Crankshaft and Bearing code 4701
1	Flanged Main Brg.	**FP-RE65168**	*STD*	Crankshaft and Bearing code 4701

(continued on next page)

* New Item — Check For Availability

Power Unit **4045H PowerTech Eng. (2-Valve Cyl. Head).** *Wheel Tractor* **4045H PowerTech Eng. (2-Valve Cyl. Head).** *Crawler Tractor* **4045H PowerTech Eng. (2-Valve Cyl. Head).** *Loader Tractor* **4045H PowerTech Eng. (2-Valve Cyl. Head).** *Forestry Tractor* **4045H PowerTech Eng. (2-Valve Cyl. Head).** *Excavator* **4045H PowerTech Eng. (2-Valve Cyl. Head).** *Integrated Tool Carrier* **4045H PowerTech Eng. (2-Valve Cyl. Head).** *Telehandler* **4045H PowerTech Eng. (2-Valve Cyl. Head).**

61 (cont.)

4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 2V IC), 106mm Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	MAIN BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Flanged Main Brg.	**FP-RE65912**	*.25MM*	Crankshaft and Bearing code 4701

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	**FP-R121867**	*STD*	
4	Liner w/Sealing Rings	**FP-RE500024**	*STD*	
4	Cylinder Kit Complete	**FP-RE507920**	*STD*	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562
4	Cylinder Kit Complete	**FP-RE507850**	*STD*	4045H Engs.; Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335
4	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	**FP-RE505100**	*STD*	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin
4	Piston Body w/o Pin	**FP-RE55512**	*STD*	Piston, Con. Rod, Cyl. liner code 4809; Large Pin; w/Con. Rod marked R500335
4	Pin	**FP-R123178**		Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.
4	Pin	**FP-R123177**		4045H Engs.; Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335; Large Pin; 1.62" pin dia.
8	Piston Pin Retainer	**FP-M41029**		w/Con. Rod marked R123959; Small Pin; For 1.38" pin dia.
8	Piston Pin Retainer	**FP-R54114**		4045H Engs.; w/Con. Rod marked R500335; Large Pin; For 1.62" pin dia.
4	Pin Bushing	**FP-R123960**		w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.
4	Pin Bushing	**FP-R114082**		4045H Engs.; w/Con. Rod marked R500335; Large Pin
4	Piston Pin Kit	**FP-RE63915**		4045H Engs.; Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335; Large Pin; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	**FP-R114083**		Cyl. Liner code 4803; w/Con. Rod marked R123959; To Ser. No. 793,991; Small Pin
8	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4803; w/Con. Rod marked R123959, R500000; From Ser. No. 36,628
8	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4809; w/Con. Rod marked R500000; From Ser. No. 36,628
8	Con. Rod Bolt	**FP-R114083**		Cyl. Liner code 4809; w/Con. Rod marked R500335; To Ser. No. 793,991
8	Con. Rod Bolt	**FP-R501124**		4045H Engs.; Cyl. Liner code 4809; w/Con. Rod marked R500335; From Ser. No. 36,628
8	Con. Rod Bolt	**FP-R114083**		4045H Engs.; Cyl. Liner code 4809; w/Con. Rod marked R500335; To Ser. No. 793,991; Small Pin
4	Rod Pair	**FP-RE65908**	*STD*	Cyl. Liner code 4809; w/Con. Rod marked R500335
4	Rod Pair	**FP-RE65909**	*.25MM*	Cyl. Liner code 4809; w/Con. Rod marked R500335
4	Rod Pair	**FP-RE65908**	*STD*	Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959, R500000
4	Rod Pair	**FP-RE65909**	*.25MM*	Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959, R500000

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	**FP-RE507852**	*STD*	Use w/FP-RE55512 piston; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	**FP-RE66820**	*STD*	Use w/FP-RE55512 piston; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	**FP-RE66271**	*STD*	Use w/FP-RE59277 piston
4	Ring Set Single Cylinder	**FP-RE66271**	*STD*	4045H Engs.; Use w/RE505100 piston

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-IFKPT4045T**		Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562

62 *Power Unit* 4045H PowerTech Eng. (4-Valve Cyl. Head). *Wheel Tractor* 4045H PowerTech Eng. (4-Valve Cyl. Head).

4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 4V IC), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123542		
1	Head Gasket	FP-R116515		
1	Head Set	FP-RE66082		

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3005, 3006, 3010, 3011, 3012

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	FP-RE500737 *		Standard flow
1	Water Pump Filter	FP-R98527		w/Pump housing marked RE70683

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R97342		Oil pan codes 1904, 1905; w/Stamped Steel Pan
2	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
4	Balance Shaft Bearing	FP-R115299		4045H Engs.; Balance shaft code 4501

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Plain Main Brg.	FP-RE65165	*STD*	Crankshaft and Bearing code 4701
4	Plain Main Brg.	FP-RE65911	*.25MM*	Crankshaft and Bearing code 4701
1	Flanged Main Brg.	FP-RE65168	*STD*	Crankshaft and Bearing code 4701
1	Flanged Main Brg.	FP-RE65912	*.25MM*	Crankshaft and Bearing code 4701

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	FP-R121867	*STD*	
4	Liner w/Sealing Rings	FP-RE500024	*STD*	
4	Cylinder Kit Complete	FP-RE507920	*STD*	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562
4	Cylinder Kit Complete	FP-RE507850	*STD*	Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335
4	Cyl. Liner Sealing Ring Kit	FP-AR65507		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-RE505100	*STD*	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin
4	Piston Body w/o Pin	FP-RE55512	*STD*	Piston, Con. Rod, Cyl. liner code 4809; Large Pin; w/Con. Rod marked R500335
4	Pin	FP-R123178		Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.
4	Pin	FP-R123177		4045H Engs.; Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335; Large Pin; 1.62" pin dia.
8	Piston Pin Retainer	FP-M41029		w/Con. Rod marked R123959; Small Pin; For 1.38" pin dia.
8	Piston Pin Retainer	FP-R54114		4045H Engs.; w/Con. Rod marked R500335; Large Pin; For 1.62" pin dia.
4	Pin Bushing	FP-R123960		w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.
4	Pin Bushing	FP-R114082		4045H Engs.; w/Con. Rod marked R500335; Large Pin
4	Piston Pin Kit	FP-RE63915		4045H Engs.; Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335; Large Pin; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	FP-R114083		Cyl. Liner code 4803; w/Con. Rod marked R123959; To Ser. No. 793,991; Small Pin
8	Con. Rod Bolt	FP-R501124		Cyl. Liner code 4803; w/Con. Rod marked R123959, R500000; From Ser. No. 36,628

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* New Item — Check For Availability

Power Unit 4045H PowerTech Eng. (4-Valve Cyl. Head). *Wheel Tractor* 4045H PowerTech Eng. (4-Valve Cyl. Head). (cont.) 62

4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 4V IC), 106mm Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS. (cont.)	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	FP-R501124		Cyl. Liner code 4809; w/Con. Rod marked R500000; From Ser. No. 36,628
8	Con. Rod Bolt	FP-R114083		Cyl. Liner code 4809; w/Con. Rod marked R500335; To Ser. No. 793,991
8	Con. Rod Bolt	FP-R501124		4045H Engs.; Cyl. Liner code 4809; w/Con. Rod marked R500335; From Ser. No. 36,628
8	Con. Rod Bolt	FP-R114083		4045H Engs.; Cyl. Liner code 4809; w/Con. Rod marked R500335; To Ser. No. 793,991; Small Pin
4	Rod Pair	FP-RE65908	STD	Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959, R500000
4	Rod Pair	FP-RE65909	.25MM	Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959, R500000
4	Rod Pair	FP-RE65908	STD	4045H Engs.; Cyl. Liner code 4809; w/Con. Rod marked R500335
4	Rod Pair	FP-RE65909	.25MM	4045H Engs.; Cyl. Liner code 4809; w/Con. Rod marked R500335

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE507852	STD	Use w/FP-RE55512 piston; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66820	STD	Use w/FP-RE55512 piston; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66271	STD	Use w/FP-RE59277, FP-RE505100 pistons

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFKPT4045T		Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562

Loader 4045D Eng. *Crawler Tractor* 4045D Eng. *Loader Tractor* 4045D Eng. *Backhoe* 4045D Eng. 63

4.5L 275.8 (4522cc) OHV Diesel L4 (Litre Engine), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R73521		w/Stamped Steel Cover; Rocker arm cover codes 1101, 1102, 1104, 1106, 1110, 1114
1	Head Gasket	FP-R125863		From Ser. No. 300,000
1	Head Gasket	FP-R125863		RePower Engs.
1	Head Set	FP-RE38851		From Ser. No. 300,000

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R98062	STD	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
4	Intake	FP-R97490	15	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
4	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
4	Exhaust	FP-R97492	15	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
16	Keeper	FP-R91889		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	FP-R85687	STD	
4	Int.	FP-R98335		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
4	Int.	FP-R98063	STD	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	FP-RE60005		Exh. & Int.
1	Oil Filler Cap Gasket	FP-R80135		Oil filler neck code 1207; L.H. Auxiliary drive
1	Oil Filler Cap Gasket	FP-T20328		Oil filler neck codes 1101, 1104, 1201, 1202, 1206

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-RE31617		Positive type
8	Valve Stem Seal	FP-R87627		Exh. & Int.; To Ser. No. 299,999; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube codes 2902, 2904, 2905, 2909, 2910, 2912, 2999

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63 (cont.) *Loader* 4045D Eng. *Crawler Tractor* 4045D Eng. *Loader Tractor* 4045D Eng. *Backhoe* 4045D Eng.

4.5L 275.8 (4522cc) OHV Diesel L4 (Litre Engine), 106mm Bore

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3001, 3002, 3007, 3015, 3017, 3019

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Delco-Remy components; Codes 3114, 3115, 3116; 78 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola components; Codes 3101, 3116, 3129; 12 Volt, 65 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola components; Codes 3117, 3118, 3119, 3120; 24 Volt, 45 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola No. 70D42076T02; Codes 3108, 3109, 3130; 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
4	Exhaust Manifold Gasket	FP-R90658		Exh. manifold codes 2801, 2802, 2803, 2806, 2807, 2812, 2819
4	Exhaust Manifold Gasket	FP-R90658		RePower Engs.; Exh. manifold code 2803
1	Air Intake Gasket	FP-R81275		Int. manifold codes 1701, 1703, 1707, 1709
1	Air Intake Gasket	FP-R81275		RePower Engs.; Int. manifold code 1703

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-R108654		Timing cover code 4404
1	Timing Gear Cover Gasket	FP-R97454		Use w/L.H. side gear dr. timing gear cover; Gear cover codes 4401, 4402, 4403, 4408, 4409, 4410, 4411, 4414, 4419; Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
4	Fuel Injector Nozzle	FP-RE36939		w/Injector marked 28484
4	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1601, 1602, 1609, 1619, 1623; 9.270MM X 13.600MM X 5.080MM
4	Fuel Injector Seal	FP-R92352		Upper packing; w/Injector nozzle codes 1601, 1602, 1609, 1619, 1623
4	Fuel Injector Nut	FP-R79604		w/Injector marked 28484
8	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle code 1623; w/Nozzle marked 28484
4	Washer Type Seal	FP-R48000		Lower; w/Nozzle marked 28484

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Fuel transfer pump codes 3701, 3702, 3704, 3706; Transfer pump
2	O-Ring	FP-R26286		Fuel inj. pump code 1602, 1626, 1635, 1636; Fuel inlet fitting seals
2	O-Ring	FP-R26286		RePower Engs.; Codes 1651, 1652; Fuel inlet fitting seals

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	FP-R56812		w/Pump housing marked R90784, R104648
1	Water Pump Impeller	FP-R94419		Pump code 2001; w/Pump housing marked R59049
1	Water Pump Impeller	FP-R94419		Pump codes 2020, 2021, 2026; w/Pump housing marked R111084
1	Water Pump Repair/Rebuild Kit	FP-864340979		w/Pump housing marked R51661, R73606, R73724, R79171
1	Water Pump Repair/Rebuild Kit	FP-925740979		w/Pump housing marked R56787, R62902
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Repair/Rebuild Kit	FP-RE62658		w/Pump housing marked R73604
1	Water Pump Repair/Rebuild Kit	FP-RE62659		RePower Engs.; Pump code 2001; w/Pump housing marked R59049
1	Water Pump Housing Gasket	FP-R55405		w/Pump housing marked R59049
1	Water Pump Housing Gasket	FP-R97455		w/Pump housing marked R73604, R111084
1	Water Pump Housing Gasket	FP-R56809		w/Pump housing marked R90783, R90784, R104648
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked R59049, R90784, R104648, R111084
1	Water Pump Mounting Gasket	FP-T20243		w/H/D Pump housing marked R100812, R127918
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R59049, R73604, R90783, R90784, R104648, R111084, R122337

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Loader **4045D Eng.** *Crawler Tractor* **4045D Eng.** *Loader Tractor* **4045D Eng.** *Backhoe* **4045D Eng.** **63 (cont.)**

4.5L 275.8 (4522cc) OHV Diesel L4 (Litre Engine), 106mm Bore

COOLING SYSTEM (cont.)

QTY	WATER PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Shaft & Bearing Assembly	FP-JD9257		w/Pump housing marked R111084
1	Shaft & Bearing Assembly	FP-JD8643		w/Pump housing marked R90784, R104648

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat codes 2201, 2204, 2205, 4045; Housing marked R100878; 180 Deg.
1	Thermostat Gasket	FP-T20219		
1	Thermostat Cover Gasket	FP-T20215		Thermostat cover codes 2101, 2102, 2109
1	Thermostat Cover Gasket	FP-R54638		Thermostat cover codes 2102, 2106; Thermostat housing code 3903; w/Two thermostats
1	Therm. Hsg. - Water Mfld. Gsk	FP-R54641		Thermostat housing to cyl. head

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		Flywheel housing codes 1403, 1404, 1405, 1406, 1407, 1410, 1411, 1421, 1422, 1425, 1432
1	Oil Pan Gasket	FP-R119360		w/Sheet metal pan; Oil pan codes 1901, 1903, 1906; w/Cast iron oil pan
1	Oil Pan Gasket	FP-R97342		Oil pan codes 1908, 1910; w/Alum. oil pan; w/Stamped Steel Pan
1	Oil Pan Gasket	FP-R119360		RePower Engs.; Oil pan code 1901; w/Cast iron oil pan
1	Oil Pan Gasket	FP-R97342		RePower Engs.; Oil pan code 1908; w/Stamped Steel Pan
1	Oil Pan Gasket Set	FP-PG301PS		Oil pan codes 1908, 1910; w/Alum. oil pan
1	O-Ring	FP-U13639		Block coolant drain plug seal; Gear cover codes 4404, 4409, 4410; Heater codes 2601, 2602; 1.475" X .118"
1	Block to End Plate Front Gskt	FP-R131794		Front plate codes 3601, 3602, 3604; R.H. side gear drive

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG219S		
1	Complete Overhaul Gasket Set	FP-RE37715		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE37715WS		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		From Ser. No. 100,000 to Ser. No. 499,999; Codes 4601, 4604, 4605, 4607, 4610

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	FP-R57160S		
6	Balance Shaft Bearing	FP-R57160		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
2	Oil Cooler Gasket	FP-R98486		Oil cooler core flange gskt.; w/Oil cooler & filter code 5901
1	Oil Cooler Gasket	FP-R98487		Oil cooler lower cover gskt.; w/Oil cooler & filter code 5901; Lower oil cooler cover
1	O-Ring	FP-R61871		Oil cooler & line codes 5901, 5902, 5903, 5905, 5906, 5907; To Ser. No. 362,468
1	O-Ring	FP-R56814		Oil cooler housing inner seal; Cooler codes 5901, 5902, 5903, 5905, 5906, 5907
1	O-Ring	FP-R56815		Oil cooler housing outer seal; Cooler codes 5901, 5902, 5903, 5905, 5906, 5907
1	Rect. or Square Seal	FP-R70956		Cooler housing; w/Behr cooler codes 5911, 5912, 5913, 5919, 5921; 2.700" X 3.000" X .180"
1	Oil Cooler to Block Gasket	FP-R98489		Oil cooler & filter codes 5901, 5902, 5903, 5905, 5906, 5907
1	Oil Cooler Adapter Cover Gskt	FP-R114097		Filter adapter codes 5913, 5919, 5921; From Ser. No. 100,000 to Ser. No. 499,999

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-RE56792		Crankshaft marked R54501, R108657
1	Crankshaft	FP-RE54883		From Ser. No. 100,000 to Ser. No. 499,999; Crankshaft marked R120009, R90825; 60MM snout
1	Oil Seal Kit	FP-SK67942		Incl. front & rear seals; Crankshaft codes 4703, 4704, 4708

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		Crankshaft codes 4704, 4708
1	O-Ring	FP-H35244		Crankshaft pulley; Pulley codes 1301, 1307, 1308, 1312, 1316; Crankshaft, Bearing codes 4701, 4703, 4704, 4708

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		Crankshaft, Bearing codes 4701, 4703; Flywheel housing codes 1403, 1404, 1405, 1406, 1407, 1410, 1411, 1421, 1425, 1432

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3004	STD	w/Flanged thrust brg.

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63 (cont.) *Loader* 4045D Eng. *Crawler Tractor* 4045D Eng. *Loader Tractor* 4045D Eng. *Backhoe* 4045D Eng.

4.5L 275.8 (4522cc) OHV Diesel L4 (Litre Engine), 106mm Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	MAIN BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK300410	10	w/Flanged thrust brg.
1	Main Set	FP-MBK300420	20	w/Flanged thrust brg.
1	Main Set	FP-MBK300430	30	w/Flanged thrust brg.
4	Plain Main Brg.	FP-RE27352	STD	w/Flangeless thrust brg.
4	Plain Main Brg.	FP-RE27353	10	w/Flangeless thrust brg.
4	Plain Main Brg.	FP-RE27360	20	w/Flangeless thrust brg.
4	Plain Main Brg.	FP-RE27368	30	w/Flangeless thrust brg.
1	Flanged Main Brg.	FP-RE521350	STD	
1	Flanged Main Brg.	FP-RE526754	10	
1	Flanged Main Brg.	FP-RE527235	20	
1	Flanged Main Brg.	FP-RE527236	30	
3	Thrust Washer	FP-R78598	STD	w/Thrust washer; Crank marked R120009, R121018

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	FP-RE55343		Pump code 5001; w/Pump housing marked R54615; From Ser. No. 427,007
1	O-Ring	FP-R61871		Oil pump inlet; Pump code 5006
1	O-Ring	FP-R61871		Oil pump inlet; Pump codes 5001, 5003, 5004, 5010; w/Pump housing marked R54615, R54629, R97587
1	O-Ring	FP-R74354		Oil pump outlet tube; Pump codes 5006, 5010; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck codes 1201, 1202, 1201, 1203, 1297, 1299
1	Oil Filter Adapter Gasket	FP-R98488		w/Filter adapter marked R91597, R131238
1	Oil Pump Seal Ring	FP-R79563		Oil pump outlet adapter; Pump codes 5001, 5003

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	FP-R121867	STD	Hi-Ring
4	Liner w/Sealing Rings	FP-RE500024	STD	
4	Cylinder Kit Complete	FP-RE28966	STD	Hi-Ring; 1.62" pin dia.
4	Cyl. Liner Sealing Ring Kit	FP-AR65507		Hi-Ring
4	Sealing Ring, Liner	FP-R48767		Hi-Ring; Rectangle; Top
4	Sealing Ring, Liner	FP-R26121		Hi-Ring; Round; Middle
4	Sealing Ring	FP-SLR2520		Hi-Ring; Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-RE28919	STD	Hi-Ring; 1.62" Pin dia.
4	Piston Kit w/Pin & Retainers	FP-RE28919WP		From Ser. No. 100,000 to Ser. No. 499,999
4	Pin	FP-R124230		Hi-Ring; 1.62" pin dia.
8	Piston Pin Retainer	FP-R54114		Hi-Ring; For 1.62" pin dia.
4	Pin Bushing	FP-R57451		w/Con. Rod marked R56187, R58979, R80032, R113612; Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	FP-R74195		w/Con. Rod marked R54617, R56187, R116851; Torque-To-Yield bolt; Replacement recommended
4	Rod Pair	FP-RE27348	STD	
4	Rod Pair	FP-RE27349	10	
4	Rod Pair	FP-RE27358	20	
4	Rod Pair	FP-RE27364	30	
4	Rod Pair	FP-AR97517	STD	w/Con. Rod marked R56187, R116851
4	Rod Pair	FP-AR97653	10	w/Con. Rod marked R56187, R116851
4	Rod Pair	FP-AR97654	20	w/Con. Rod marked R56187, R116851
4	Rod Pair	FP-AR97655	30	w/Con. Rod marked R56187, R116851

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE507852	STD	Piston & Liner code 4802; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66820	STD	Piston & Liner code 4802; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-4045DIFK		w/Con. Rod marked R54617, R56187, R116851; w/Flangeless thrust brg.; Hi-Ring; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-4045DOHK		From Ser. No. 100,000 to Ser. No. 499,999; Camshaft codes 4601, 4604, 4605, 4607, 4610; w/Con. Rod marked R56187; Piston pin dia. 1.62"; w/Flangeless thrust brg.; Hi-Ring; Incl. front & rear seals; Crankshaft codes 4703, 4704, 4708; Incl. Torque-To-Yield con. rod bolts

Forklift **4045D PowerTech Eng.** *Loader* **4045D PowerTech Eng.** *Power Unit* **4045D PowerTech Eng.** *Wheel Tractor* **4045D PowerTech Eng.** *Crawler Tractor* **4045D PowerTech Eng.** *Loader Tractor* **4045D PowerTech Eng.** *Dozer* **4045D PowerTech Eng.** *Backhoe* **4045D PowerTech Eng.** *Track Loader* **4045D PowerTech Eng.**
4.5L 275.8 (4522cc) OHV Diesel L4 (PowerTech 2V), 106mm Bore

64

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R123542**		
1	Head Gasket	**FP-R116515**		
1	Head Set	**FP-RE66082**		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	**FP-R98062**	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
4	Intake	**FP-R97490**	*15*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
4	Exhaust	**FP-R90692**	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
4	Exhaust	**FP-R97492**	*15*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
16	Keeper	**FP-R91889**		Exh. & Int.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	**FP-R85687**	*STD*	
4	Int.	**FP-R98335**		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
4	Int.	**FP-R98063**	*STD*	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-R26125**		Exh. & Int.; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	**FP-RE60005**		Exh. & Int.

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	**FP-R53108**		3-Hole mount; Starting motor codes 3006, 3010

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
4	Fuel Injector Seal	**FP-R92352**		Upper packing; w/Injector nozzle codes 16BG, 16BH, 16BJ, 16CL, 16DL, 16GB, 16GC, 16HJ, 16HK, 16HV, 16KE, 16LM, 16LN, 1601, 1602, 1603, 1663, 1671, 1672, 1673, 1674, 1691
4	Fuel Injector Nut	**FP-R79604**		w/Injector nozzle codes 16HR, 16HS, 16HT, 16HU
1	Washer Type Seal	**FP-R51936**		Aux. drive line; Line codes 5201, 5202, 5205
2	Washer Type Seal	**FP-R51936**		Fuel line; Line codes 16BG, 16BJ, 16CL, 16DL, 16GB, 16GC, 16HJ, 16HK, 16HV, 1601, 1603, 1663, 1671, 1673, 1691

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	**FP-RE500737 ***		Standard flow
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked RE70683

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	**FP-R97342**		Oil pan codes 1904, 1905; w/Stamped Steel Pan
1	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R119874**		

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
4	Balance Shaft Bearing	**FP-R115299**		Balance shaft code 4502

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Plain Main Brg.	**FP-RE65165**	*STD*	Crankshaft and Bearing code 4701
4	Plain Main Brg.	**FP-RE65911**	*.25MM*	Crankshaft and Bearing code 4701
1	Flanged Main Brg.	**FP-RE65168**	*STD*	Crankshaft and Bearing code 4701
1	Flanged Main Brg.	**FP-RE65912**	*.25MM*	Crankshaft and Bearing code 4701

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64 (cont.) *Forklift* 4045D PowerTech Eng. *Loader* 4045D PowerTech Eng. *Power Unit* 4045D PowerTech Eng. *Wheel Tractor* 4045D PowerTech Eng. *Crawler Tractor* 4045D PowerTech Eng. *Loader Tractor* 4045D PowerTech Eng. *Dozer* 4045D PowerTech Eng. *Backhoe* 4045D PowerTech Eng. *Track Loader* 4045D PowerTech Eng.

4.5L 275.8 (4522cc) OHV Diesel L4 (PowerTech 2V), 106mm Bore

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	FP-R121867	STD	
4	Liner w/Sealing Rings	FP-RE500024	STD	
4	Cylinder Kit Complete	FP-RE65966	STD	Piston, Con. Rod, Cyl. liner code 4801
4	Cylinder Kit Complete	FP-RE507920	STD	Piston, Con. Rod, Cyl. liner code 4803; Use w/RE59277, RE505100 piston; To Ser. No. 825,562
4	Cyl. Liner Sealing Ring Kit	FP-AR65507		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-RE505101	STD	Piston, Con. Rod, Cyl. liner code 4801
4	Piston Body w/o Pin	FP-RE505100	STD	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin
4	Pin	FP-R123178		Piston, Con. Rod, Cyl. liner codes 4801, 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.
8	Piston Pin Retainer	FP-M41029		w/Con. Rod marked R123959; Small Pin; For 1.38" pin dia.
4	Pin Bushing	FP-R123960		w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	FP-R501124		Cyl. Liner code 4801, 4803; w/Con. Rod marked R123959, R500000; From Ser. No. 36,628
8	Con. Rod Bolt	FP-R114083		Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959; To Ser. No. 793,991; Small Pin
4	Rod Pair	FP-RE65908	STD	Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959, R500000
4	Rod Pair	FP-RE65909	.25MM	Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959, R500000

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE66271	STD	Use w/FP-RE59277, RE505101 piston

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFKPT4045T		Piston, Con. Rod, Cyl. liner code 4803; Use w/RE59277, RE505100 piston; To Ser. No. 825,562

65 *Loader* 4045T Eng. *Crawler Tractor* 4045T Eng. *Loader Tractor* 4045T Eng. *Excavator* 4045T Eng. *Skidder* 4045T Eng. *Backhoe* 4045T Eng.

4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (Litre Engine), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R73521		w/Stamped Steel Cover; Rocker arm cover codes 1101, 1102, 1104, 1106, 1110, 1114
1	Valve Cover Gasket	FP-R75728		RePower Engs.; Valve cover code 1110; Early design
1	Valve Cover Gasket	FP-R73521		RePower Engs.; Valve cover code 1110; Late design
1	Head Gasket	FP-R125863		From Ser. No. 300,000
1	Head Gasket	FP-R125863		RePower Engs.
1	Head Set	FP-RE38851		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R98062	STD	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
4	Intake	FP-R97490	15	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
4	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
4	Exhaust	FP-R97492	15	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
16	Keeper	FP-R91889		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	FP-R85687	STD	
4	Int.	FP-R98335		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
4	Int.	FP-R98063	STD	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-R26125		2.1200" Free Height

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Loader **4045T Eng.** *Crawler Tractor* **4045T Eng.** *Loader Tractor* **4045T Eng.** *Excavator* **4045T Eng.** *Skidder* **4045T Eng.** *Backhoe* **4045T Eng.** **65 (cont.)**

4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (Litre Engine), 106mm Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	FP-RE60005		Exh. & Int.
1	Oil Filler Cap Gasket	FP-R80135		Oil filler neck code 1207; L.H. Auxiliary drive
1	Oil Filler Cap Gasket	FP-T20328		Oil filler neck codes 1101, 1104, 1201, 1202, 1206

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-RE31617		Positive type
8	Valve Stem Seal	FP-R87627		Exh. & Int.; To Ser. No. 299,999; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube codes 2902, 2904, 2905, 2909, 2910, 2912, 2999
1	O-Ring	FP-R56463		Rocker cover breather tube; RePower Engs.; Breather tube code 2910

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3001, 3002, 3007, 3015, 3017, 3019

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Delco-Remy components; Codes 3114, 3115, 3116; 78 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola components; Codes 3101, 3116, 3129; 12 Volt, 65 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola components; Codes 3117, 3118, 3119, 3120; 24 Volt, 45 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola No. 70D42076T02; Codes 3108, 3109, 3130; 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
4	Exhaust Manifold Gasket	FP-R90658		Exh. manifold codes 2803, 2806, 2812, 2819, 2822
4	Exhaust Manifold Gasket	FP-R90658		RePower Engs.; Exh. manifold code 2803
1	Air Intake Gasket	FP-R81275		Int. manifold codes 1713, 1718

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover
1	Timing Gear Cover Gasket	FP-R108654		Timing cover code 4404
1	Timing Gear Cover Gasket	FP-R97454		Use w/L.H. side gear dr. timing gear cover; Gear cover codes 4401, 4402, 4403, 4408, 4409, 4410, 4411, 4414, 4419; Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
4	Fuel Injector Nozzle	FP-RE36939		w/Injector marked 28484
4	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1601, 1602, 1609, 1619, 1623; 9.270MM X 13.600MM X 5.080MM
4	Fuel Injector Seal	FP-R92352		Upper packing; w/Injector nozzle codes 1601, 1602, 1609, 1619, 1623
4	Fuel Injector Nut	FP-R79604		w/Injector marked 28484
8	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle code 1619; w/Nozzle marked 28484
4	Washer Type Seal	FP-R48000		Lower; w/Nozzle marked 28484

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Fuel transfer pump codes 3701, 3702, 3704, 3706; Transfer pump
2	O-Ring	FP-R26286		Fuel inj. pump codes 1602, 1603, 1625, 1627, 1629, 1630, 1631, 1637, 1641, 1642, 1644, 1645; Fuel inlet fitting seals
2	O-Ring	FP-R26286		RePower Engs.; Fuel inj. pump codes 1651, 1652; Fuel inlet fitting seals

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		
1	Turbocharger Mounting Gasket	FP-R89879		
1	Turbo Exhaust Int. Cover Gskt	FP-R92097		Turbo codes 6504, 6505
1	Turbocharger Oil Supply Gskt.	FP-R97348		

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65 (cont.) *Loader* 4045T Eng. *Crawler Tractor* 4045T Eng. *Loader Tractor* 4045T Eng. *Excavator* 4045T Eng. *Skidder* 4045T Eng. *Backhoe* 4045T Eng.

4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (Litre Engine), 106mm Bore

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	FP-R56812		w/Pump housing marked R90784, R104648
1	Water Pump Impeller	FP-R94419		RePower Engs.; Pump code 2001; w/Pump housing marked R59049
1	Water Pump Repair/Rebuild Kit	FP-925740979		w/Pump housing marked R56787, R6290202
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Repair/Rebuild Kit	FP-RE62658		w/Pump housing marked R73604
1	Water Pump Repair/Rebuild Kit	FP-RE62659		RePower Engs.; Pump code 2001; w/Pump housing marked R59049
1	Water Pump Housing Gasket	FP-R55405		w/Pump housing marked R59049
1	Water Pump Housing Gasket	FP-R97455		w/Pump housing marked R73604, R111084
1	Water Pump Housing Gasket	FP-R56809		w/Pump housing marked R90783, R90784, R104648
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked R90784, R104648, R111084
1	Water Pump Mounting Gasket	FP-T20243		w/H/D Pump housing marked R100812, R127918
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R73604, R90783, R90784, R104648, R111084, R122337
1	Shaft & Bearing Assembly	FP-JD9257		w/Pump housing marked R59049, R111084
1	Shaft & Bearing Assembly	FP-JD8643		w/Pump housing marked R90784, R104648

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 4045; Housing marked R100878; 180 Deg.
2	Thermostat	FP-AR48675		Thermostat codes 2201, 2205, 2207; Housing codes 3901, 3904; 180 Deg.
1	Thermostat Gasket	FP-T20219		
1	Thermostat Cover Gasket	FP-T20215		Thermostat cover codes 2101, 2102, 2109
1	Thermostat Cover Gasket	FP-R54638		Thermostat cover codes 2102, 2106; Thermostat housing codes 3901, 3903, 3904; w/Two thermostats
1	Therm. Hsg. - Water Mfld. Gsk	FP-R54641		Thermostat housing to cyl. head
2	O-Ring	FP-R56461		Thermostat housing tube seals; Housing code 3905; Water pump codes 2004, 2023

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		Flywheel housing codes 1403, 1404, 1405, 1406, 1407, 1410, 1411, 1421, 1422, 1425, 1432
1	Oil Pan Gasket	FP-R119360		w/Sheet metal pan; Oil pan codes 1906, 1908; w/Cast iron oil pan
1	Oil Pan Gasket	FP-R97342		Oil pan codes 1908, 1910; w/Alum. oil pan; w/Stamped Steel Pan
1	Oil Pan Gasket	FP-R97342		RePower Engs.; Oil pan code 1908; w/Stamped Steel Pan
1	Oil Pan Gasket Set	FP-PG301PS		To Ser. No. 427,006; w/Alum. oil pan
1	O-Ring	FP-U13639		Block coolant drain plug seal; Gear cover codes 4404, 4409, 4410; Heater codes 2601, 2602; 1.475" X .118"
1	Block to End Plate Front Gskt	FP-R131794		Front plate codes 3601, 3602, 3604; R.H. side gear drive

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG219S		
1	Complete Overhaul Gasket Set	FP-RE37715		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE37715WS		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		From Ser. No. 100,000 to Ser. No. 499,999; Codes 4601, 4604, 4605, 4607, 4610

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	FP-R57160S		
6	Balance Shaft Bearing	FP-R57160		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
2	Oil Cooler Gasket	FP-R98486		Oil cooler core flange gskt.; w/Oil cooler & filter code 5901
1	Oil Cooler Gasket	FP-R98487		Oil cooler lower cover gskt.; w/Oil cooler & filter code 5901; Lower oil cooler cover
1	O-Ring	FP-R61871		Oil cooler & line codes 5901, 5902, 5905, 5906, 5907; To Ser. No. 362,468
1	O-Ring	FP-R56462		Oil cooler adapter code 5913; To Ser. No. 206,997; Adapter cover bolt seal
1	O-Ring	FP-R56193		Oil cooler housing outer seal; Cooler codes 5902, 5903
1	O-Ring	FP-R56815		Oil cooler housing outer seal; Cooler codes 5905, 5906, 5907
1	Rect. or Square Seal	FP-R70956		Cooler housing; w/Behr cooler codes 5911, 5912, 5913, 5919, 5921; 2.700" X 3.000" X .180"
1	Oil Cooler Cover Gasket	FP-R98471		Oil cooler & filter codes 5902, 5903
1	Oil Cooler to Block Gasket	FP-R98489		Oil cooler & filter codes 5901, 5902, 5903, 5905, 5906, 5907

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Loader **4045T Eng.** *Crawler Tractor* **4045T Eng.** *Loader Tractor* **4045T Eng.** *Excavator* **4045T Eng.** *Skidder* **4045T Eng.** *Backhoe* **4045T Eng.** **65 (cont.)**

4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (Litre Engine), 106mm Bore

ENGINE BLOCK & PARTS (cont.)

QTY	OIL COOLERS & FILTERS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler Adapter Cover Gskt	**FP-R114097**		Filter adapter codes 5913, 5919, 5921; From Ser. No. 100,000 to Ser. No. 499,999

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE56792**		Crankshaft marked R54501, R108657
1	Crankshaft	**FP-RE54883**		From Ser. No. 100,000 to Ser. No. 499,999; Crankshaft marked R120009, R90825; 60MM snout
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft codes 4703, 4704, 4708

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		Front; Crankshaft codes 4704, 4708
1	O-Ring	**FP-H35244**		Crankshaft pulley; Pulley codes 1301, 1307, 1308, 1312, 1316; Crankshaft, Bearing codes 4701, 4703, 4704, 4708

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		Crankshaft, Bearing codes 4701, 4703; Flywheel housing codes 1403, 1404, 1405, 1406, 1407, 1410, 1411, 1421, 1425, 1432

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3004**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300410**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300420**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300430**	*30*	w/Flanged thrust brg.
4	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
3	Thrust Washer	**FP-R78598**	*STD*	w/Thrust washer; Crank marked R120009, R121018

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	**FP-RE55343**		Pump code 5001; w/Pump housing marked R54615; From Ser. No. 427,007
1	O-Ring	**FP-R61871**		Oil pump inlet; Pump code 5006
1	O-Ring	**FP-R61871**		Oil pump inlet; Pump codes 5001, 5003, 5004, 5010; w/Pump housing marked R54615, R54629, R97587
1	O-Ring	**FP-R74354**		Oil pump outlet tube; Pump codes 5006, 5010; Outlet seal; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1201, 1202, 1203, 1297, 1299
1	Oil Filter Adapter Gasket	**FP-R98488**		w/Filter adapter marked R91597, R131238
1	Oil Pump Seal Ring	**FP-R79563**		Oil pump outlet adapter; Pump codes 5001, 5003

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	**FP-R121867**	*STD*	Hi-Ring
4	Liner w/Sealing Rings	**FP-RE500024**	*STD*	
4	Cylinder Kit Complete	**FP-RE53073**	*STD*	Hi-Ring & RePower Engs.
4	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		Hi-Ring
4	Sealing Ring, Liner	**FP-R48767**		Hi-Ring; Rectangle; Top
4	Sealing Ring, Liner	**FP-R26121**		Hi-Ring; Round; Middle
4	Sealing Ring	**FP-SLR2520**		Hi-Ring; Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	**FP-RE48469**	*STD*	Hi-Ring & RePower Engs.
4	Piston Kit w/Pin & Retainers	**FP-RE48469WP**		From Ser. No. 100,000 to Ser. No. 499,999
4	Pin	**FP-R124230**		Hi-Ring; 1.62" pin dia.
8	Piston Pin Retainer	**FP-R54114**		Hi-Ring; For 1.62" pin dia.
4	Pin Bushing	**FP-R57451**		w/Con. Rod marked R56187, R58979, R80032, R113612; Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.
4	Pin Bushing	**FP-R114082**		Aftercooled; w/Con. Rod code 4809; w/Con. Rod marked R500335

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	**FP-R74195**		w/Con. Rod marked R54617, R56187, R116851; Torque-To-Yield bolt; Replacement recommended
4	Rod Pair	**FP-AR97517**	*STD*	w/Con. Rod marked R56187, R116851

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65 (cont.) *Loader* **4045T Eng.** *Crawler Tractor* **4045T Eng.** *Loader Tractor* **4045T Eng.** *Excavator* **4045T Eng.** *Skidder* **4045T Eng.** *Backhoe* **4045T Eng.**

4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (Litre Engine), 106mm Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS. (cont.)	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-AR97653	*10*	w/Con. Rod marked R56187, R116851
4	Rod Pair	FP-AR97654	*20*	w/Con. Rod marked R56187, R116851
4	Rod Pair	FP-AR97655	*30*	w/Con. Rod marked R56187, R116851

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE507852	*STD*	Piston & Liner code 4802; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66820	*STD*	Piston & Liner code 4802; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-4045TIFK		w/Con. Rod marked R56187, R116851; w/Flangeless thrust brg.; Hi-Ring; RePower Engs.; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-4045TOHK		From Ser. No. 100,000 to Ser. No. 499,999; Camshaft codes 4601, 4604, 4605, 4607, 4610; w/Con. Rod marked R56187; Piston pin dia. 1.62"; w/Flangeless thrust brg.; RePower Engs.; Hi-Ring; Incl. front & rear seals; Crankshaft codes 4703, 4704, 4708; Incl. Torque-To-Yield con. rod bolts

66 *Forklift* **4045T PowerTech Eng.** *Loader* **4045T PowerTech Eng.** *Power Unit* **4045T PowerTech Eng.** *Wheel Tractor* **4045T PowerTech Eng.** *Windrower* **4045T PowerTech Eng.** *Crawler Tractor* **4045T PowerTech Eng.** *Loader Tractor* **4045T PowerTech Eng.** *Forestry Tractor* **4045T PowerTech Eng.** *Excavator* **4045T PowerTech Eng.** *Dozer* **4045T PowerTech Eng.** *Backhoe* **4045T PowerTech Eng.** *Sprayer* **4045T PowerTech Eng.** *Integrated Tool Carrier* **4045T PowerTech Eng.** *Telehandler* **4045T PowerTech Eng.**

4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123542		
1	Head Gasket	FP-R116515		
1	Head Set	FP-RE66082		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R98062	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
4	Intake	FP-R97490	*15*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
4	Exhaust	FP-R90692	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
4	Exhaust	FP-R97492	*15*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
16	Keeper	FP-R91889		Exh. & Int.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	FP-R85687	*STD*	
4	Int.	FP-R98335		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
4	Int.	FP-R98063	*STD*	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-R26125		Exh. & Int.; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	FP-RE60005		Exh. & Int.

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3005, 3006, 3010, 3011, 3012

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
4	Fuel Injector Nozzle	FP-RE48786		Nozzle codes 16BF, 16CE, 16CM, 16GL, 16LP, 16LQ, 16NH, 160R, 160S, 1606, 1608, 1675, 1677, 1682, 1683, 1692, 1694, 1695
4	Fuel Injector Seal	FP-R92352		Upper packing; w/Injector nozzle codes 16BF, 16CE, 16CM, 16CV, 16GL, 16LP, 16LQ, 16NH, 16OR, 1605, 1606, 1608, 1656, 1667, 1675, 1677, 1682, 1683, 1692, 1694, 1695
4	Fuel Injector Nut	FP-R79604		w/Injector nozzle codes 16HM, 16HN, 16HP, 16HQ, 16LK, 16LL
1	Washer Type Seal	FP-R51936		Aux. drive line; Line codes 5201, 5202, 5203, 5205, 5206

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Forklift **4045T PowerTech Eng.** *Loader* **4045T PowerTech Eng.** *Power Unit* **4045T PowerTech Eng.** *Wheel Tractor* **4045T PowerTech Eng.** *Windrower* **4045T PowerTech Eng.** *Crawler Tractor* **4045T PowerTech Eng.** *Loader Tractor* **4045T PowerTech Eng.** *Forestry Tractor* **4045T PowerTech Eng.** *Excavator* **4045T PowerTech Eng.** *Dozer* **4045T PowerTech Eng.** *Backhoe* **4045T PowerTech Eng.** *Sprayer* **4045T PowerTech Eng.** *Integrated Tool Carrier* **4045T PowerTech Eng.** *Telehandler* **4045T PowerTech Eng.**
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 2V), 106mm Bore

66 (cont.)

FUEL SYSTEM & PARTS (cont.)

QTY	FUEL INJECTION (cont.)	PART NO.	SIZE	DESCRIPTION
2	Washer Type Seal	**FP-R51936**		Fuel line; Aftercooled; Line codes 160B, 1611
2	Washer Type Seal	**FP-R51936**		Fuel line; Line codes 16BF, 16CE, 16CM, 16CV, 16GL, 16LN, 16LP, 16LQ, 16NH, 16OR, 1605, 1671, 1677, 1682

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	**FP-RE500737 ***		Standard flow
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked RE70683

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	**FP-AR48675**		w/Housing marked R54808, R59501, R89294, R100878; 180 Deg.
1	Thermostat	**FP-RE33705**		w/Housing marked T19651, T20218, R60256, R127777; 180 Deg.

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	**FP-R97342**		Oil pan codes 1904, 1905; w/Stamped Steel Pan
2	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R119874**		

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
4	Balance Shaft Bearing	**FP-R115299**		Balance shaft code 4501

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Plain Main Brg.	**FP-RE65165**	*STD*	Crankshaft and Bearing code 4701
4	Plain Main Brg.	**FP-RE65911**	*.25MM*	Crankshaft and Bearing code 4701
1	Flanged Main Brg.	**FP-RE65168**	*STD*	Crankshaft and Bearing code 4701
1	Flanged Main Brg.	**FP-RE65912**	*.25MM*	Crankshaft and Bearing code 4701

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	**FP-R121867**	*STD*	
4	Liner w/Sealing Rings	**FP-RE500024**	*STD*	
4	Cylinder Kit Complete	**FP-RE507920**	*STD*	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562
4	Cylinder Kit Complete	**FP-RE507850**	*STD*	Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335
4	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	**FP-RE505100**	*STD*	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin
4	Piston Body w/o Pin	**FP-RE55512**	*STD*	Piston, Con. Rod, Cyl. liner code 4809; Large Pin; w/Con. Rod marked R500335
4	Pin	**FP-R123178**		Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.
4	Pin	**FP-R123177**		Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335; Large Pin; 1.62" pin dia.
8	Piston Pin Retainer	**FP-M41029**		w/Con. Rod marked R123959; Small Pin; For 1.38" pin dia.
8	Piston Pin Retainer	**FP-R54114**		w/Con. Rod marked R500335; Large Pin; For 1.62" pin dia.
4	Pin Bushing	**FP-R123960**		w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.
4	Pin Bushing	**FP-R114082**		w/Con. Rod marked R500335; Large Pin
4	Piston Pin Kit	**FP-RE63915**		Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335; Large Pin; Incl. Pin, Retainers & Bushing

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66 (cont.) *Forklift* 4045T PowerTech Eng. *Loader* 4045T PowerTech Eng. *Power Unit* 4045T PowerTech Eng. *Wheel Tractor* 4045T PowerTech Eng. *Windrower* 4045T PowerTech Eng. *Crawler Tractor* 4045T PowerTech Eng. *Loader Tractor* 4045T PowerTech Eng. *Forestry Tractor* 4045T PowerTech Eng. *Excavator* 4045T PowerTech Eng. *Dozer* 4045T PowerTech Eng. *Backhoe* 4045T PowerTech Eng. *Sprayer* 4045T PowerTech Eng. *Integrated Tool Carrier* 4045T PowerTech Eng. *Telehandler* 4045T PowerTech Eng.

4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 2V), 106mm Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	FP-R114083		Cyl. Liner code 4803; w/Con. Rod marked R123959; To Ser. No. 793,991; Small Pin
8	Con. Rod Bolt	FP-R501124		Cyl. Liner code 4803; w/Con. Rod marked R123959, R500000; From Ser. No. 36,628
8	Con. Rod Bolt	FP-R501124		Cyl. Liner code 4809; w/Con. Rod marked R500000, R500335; From Ser. No. 36,628
8	Con. Rod Bolt	FP-R114083		Cyl. Liner code 4809; w/Con. Rod marked R500335; To Ser. No. 793,991; Small Pin
4	Rod Pair	FP-RE65908	STD	Cyl. Liner code 4809; w/Con. Rod marked R500335
4	Rod Pair	FP-RE65909	.25MM	Cyl. Liner code 4809; w/Con. Rod marked R500335
4	Rod Pair	FP-RE65908	STD	Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959, R500000
4	Rod Pair	FP-RE65909	.25MM	Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959, R500000

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE66271	STD	
4	Ring Set Single Cylinder	FP-RE507852	STD	Use w/FP-RE55512 piston; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66820	STD	Use w/FP-RE55512 piston; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66271	STD	Use w/FP-RE59277, RE505100 pistons

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFKPT4045T		Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562

67 *Loader* 4276D Eng. *Wheel Tractor* 4276D Eng. *Crawler Tractor* 4276D Eng. *Loader Tractor* 4276D Eng. *Excavator* 4276D Eng. *Skidder* 4276D Eng. *Dozer* 4276D Eng. *Backhoe* 4276D Eng. *Feller Buncher* 4276D Eng.

4.5L 276 OHV Diesel L4 (Standard), 4.1875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R73521		Rocker arm cover codes 1102, 1104, 1110
1	Valve Cover Gasket	FP-T20075		To Ser. No. 598,042
1	Head Gasket	FP-R125863		From Ser. No. 100,001; Manufactured after 1983
1	Head Gasket	FP-R125863		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	Head Set	FP-RE38851		From Ser. No. 100,001; Manufactured after 1983
1	Head Set	FP-RE38851		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R79623	STD	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79628	3	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79629	15	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79630	30	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79624	STD	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79625	3	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79626	15	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79627	30	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
16	Keeper	FP-41339		1 groove; Square cut key groove
16	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	FP-R73064	STD	

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Loader **4276D Eng.** *Wheel Tractor* **4276D Eng.** *Crawler Tractor* **4276D Eng.** *Loader Tractor* **4276D Eng.** *Excavator* **4276D Eng.** *Skidder* **4276D Eng.** *Dozer* **4276D Eng.** *Backhoe* **4276D Eng.** *Feller Buncher* **4276D Eng.**

67 (cont.)

4.5L 276 OHV Diesel L4 (Standard), 4.1875" Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE SEAT (cont.)	PART NO.	SIZE	DESCRIPTION
4	Int.	FP-R51734	STD	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
4	Rotocap	FP-RE11410		
1	Bushing	FP-T26321		Lower
1	Bushing	FP-T20034		Upper
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover codes 1101, 1104; Oil filler neck codes 1201, 1202, 1203

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-R87627		Exh. & Int.; From Ser. No. 724,327; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube codes 2909, 2915

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3001, 3017, 3018

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Delco-Remy No. 1102936; 61 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. A12NJD453; 35 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. A12NJD604; 55 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. 8TA2009ES; 30 amp alternator
1	Ball Brg.	FP-JD9449		Front; 12 Volt, 63 amp alternator; 72 amp alternator; 78 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Codes 3101, 3102, 3103, 3104, 3105, 3106, 3107, 3108, 3109, 3110, 3111, 3112, 3113, 3114, 3115, 3116, 3129; 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
4	Exhaust Manifold Gasket	FP-R90658		
1	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
4	Fuel Injector Nozzle	FP-RE37503		Nozzle codes 1602, 1603, 1605; From Ser. No. 100,001; Manufactured after 1983
4	Fuel Injector Nozzle	FP-RE37503		Nozzle codes 1602, 1603, 1605; From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
4	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1602, 1603, 1605; 9.270MM X 13.600MM X 5.080MM
4	Fuel Injector Seal	FP-R92352		Upper packing; w/Stanadyne® nozzle No. 26993
8	Washer	FP-T20055		Pump codes 1602, 1603
4	Fuel Injector Nut	FP-R79604		w/Injector marked 20291, 20504, 22205, 22264, 26993
8	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1602, 1603, 1613
4	Washer Type Seal	FP-R48000		Lower; w/Nozzle codes 1602, 1603, 1625; w/Nozzle marked 26993
4	Washer Type Seal	FP-R60746		Upper; Nozzle codes 1602, 1603, 1605; From Ser. No. 609,312

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Transfer pump
1	Fuel Transfer Pump Gasket	FP-R97350		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	FP-R94419		Pump code 2001; w/Pump housing marked R54805, R59049

(continued on next page)

67 (cont.) *Loader* **4276D Eng.** *Wheel Tractor* **4276D Eng.** *Crawler Tractor* **4276D Eng.** *Loader Tractor* **4276D Eng.** *Excavator* **4276D Eng.** *Skidder* **4276D Eng.** *Dozer* **4276D Eng.** *Backhoe* **4276D Eng.** *Feller Buncher* **4276D Eng.**
4.5L 276 OHV Diesel L4 (Standard), 4.1875" Bore

COOLING SYSTEM (cont.)

QTY	WATER PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Water Pump Repair/Rebuild Kit	FP-925740979		w/Pump housing marked R56787, R62902
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	FP-R55405		w/Pump housing marked R54805, R59049
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked R55164, R90783
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R54805, R59049
1	Shaft & Bearing Assembly	FP-JD9257		w/Pump housing marked R54805, R59049

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2204; Thermostat cover code 2102 Vertical, 2201 Horizontal; Housing marked R89294, From Ser. No. 366,183; 180 Deg.
2	Thermostat	FP-AR48675		Thermostat code 2204; Thermostat cover code 2102 Vertical, 2201 Horizontal; To Ser. No. 366,182; 180 Deg.
1	Thermostat Gasket	FP-T20219		Thermostat cover code 2101, 2102
1	Thermostat Cover Gasket	FP-T20215		Thermostat cover codes 2101, 2102
2	O-Ring	FP-R56461		Thermostat housing tube seals; Housing code 2204; To Ser. No. 366,182

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		
1	Oil Pan Gasket	FP-R119360		From Ser. No. 100,001; Manufactured after 1983; Oil pan codes 1901, 1902, 1903; w/Cast iron oil pan
1	Oil Pan Gasket	FP-R119360		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83; Oil pan codes 1901, 1903; w/Cast iron oil pan
1	Oil Pan Gasket	FP-R97342		Oil pan code 1908; w/Stamped Steel Pan
1	O-Ring	FP-U13639		Block coolant drain plug seal; 1.475" X .118"
1	Block to End Plate Front Gskt	FP-R131794		From Ser. No. 100,001; Manufactured after 1983
1	Block to End Plate Front Gskt	FP-R131794		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-PG219CS		Wear sleeve incl.
1	In-Frame Gasket Set	FP-PG219S		
1	Complete Overhaul Gasket Set	FP-RE37715		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE37715WS		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.
1	Kit Gasket Set	260-1392		Compl.; Rear main brg. seal incl.; Wear sleeve incl.

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	FP-R57160S		
6	Balance Shaft Bearing	FP-R57160		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler Gasket	FP-R98486		From Ser. No. 100,001; Manufactured after 1983
1	Oil Cooler Gasket	FP-R98487		From Ser. No. 100,001; Manufactured after 1983; Lower oil cooler cover
1	Oil Cooler Gasket	FP-R98486		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	Oil Cooler Gasket	FP-R98487		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83; Lower oil cooler cover
1	O-Ring	FP-A4730R		From Ser. No. 100,001; Manufactured after 1983; Oil cooler to block check valve seal
1	O-Ring	FP-A4730R		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83; Oil cooler to block check valve seal
1	O-Ring	FP-R56814		Oil cooler housing inner seal; From Ser. No. 100,001; Manufactured after 1983
1	O-Ring	FP-R56814		Oil cooler housing inner seal; From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	O-Ring	FP-R56815		Oil cooler housing outer seal; From Ser. No. 100,001; Manufactured after 1983
1	O-Ring	FP-R56815		Oil cooler housing outer seal; From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-RE56792		Crankshaft marked R54501, R108657
1	Oil Seal Kit	FP-SK67942		Incl. front & rear seals; Crankshaft marked R120009

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		

(continued on next page)

Loader **4276D Eng.** *Wheel Tractor* **4276D Eng.** *Crawler Tractor* **4276D Eng.** *Loader Tractor* **4276D Eng.** *Excavator* **4276D Eng.** *Skidder* **4276D Eng.** *Dozer* **4276D Eng.** *Backhoe* **4276D Eng.** *Feller Buncher* **4276D Eng.**

67 (cont.)

4.5L 276 OHV Diesel L4 (Standard), 4.1875" Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	SEALS - FRONT CRANK (cont.)	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-H35244		Crankshaft pulley; w/Crankshaft marked R12009

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		Crankshaft codes 1301, 1302; Flywheel housing codes 1403, 1404, 1405, 1421, 1425, 1432

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3004	STD	w/Flanged thrust brg.
1	Main Set	FP-MBK300410	10	w/Flanged thrust brg.
1	Main Set	FP-MBK300420	20	w/Flanged thrust brg.
1	Main Set	FP-MBK300430	30	w/Flanged thrust brg.
4	Plain Main Brg.	FP-RE27352	STD	w/Flangeless thrust brg.
4	Plain Main Brg.	FP-RE27353	10	w/Flangeless thrust brg.
4	Plain Main Brg.	FP-RE27360	20	w/Flangeless thrust brg.
4	Plain Main Brg.	FP-RE27368	30	w/Flangeless thrust brg.
1	Flanged Main Brg.	FP-RE521350	STD	
1	Flanged Main Brg.	FP-RE526754	10	
1	Flanged Main Brg.	FP-RE527235	20	
1	Flanged Main Brg.	FP-RE527236	30	
4	Thrust Washer	FP-R78598	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R61871		Oil pump inlet; w/Pump housing marked R54629
1	O-Ring	FP-R80632		Oil Pump outlet tube
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck codes 1201, 1202, 1203
1	Oil Filter Adapter Gasket	FP-R98488		w/Filter adapter marked R131238
1	Oil Pump Seal Ring	FP-R79563		Oil pump outlet adapter; w/Pump marked R54629; To Ser. No. 122,703

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	FP-R121867	STD	
4	Liner w/Sealing Rings	FP-RE500024	STD	1.38" pin dia.
4	Cylinder Kit Complete	FP-RE19831	STD	w/Con. Rod marked R54617; 1.38" pin dia.
4	Cylinder Kit Complete	FP-RE19833	STD	w/Con. Rod marked R56187, R116851; Pin dia. 1.62"
4	Cylinder Kit Complete	FP-RE28966	STD	1.62" pin dia.
4	Cyl. Liner Sealing Ring Kit	FP-AR65507		
4	Sealing Ring, Liner	FP-R48767		Rectangle; Top
4	Sealing Ring, Liner	FP-R26121		Round; Middle
4	Sealing Ring	FP-SLR2520		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-AR63342	STD	1.38" pin dia.
4	Piston Body w/o Pin	FP-AR68188	STD	1.62" pin dia.
4	Piston Kit w/Pin & Retainers	FP-AR63342WP	STD	1.38" pin dia.
4	Piston Kit w/Pin & Retainers	FP-AR68188WP	STD	1.62" pin dia.
4	Pin	FP-R125754		1.38" pin dia.
4	Pin	FP-R124230		1.62" pin dia.
8	Piston Pin Retainer	FP-R54114		For 1.62" pin dia.
8	Piston Pin Retainer	FP-M41029		Small Pin; For 1.38" pin dia.
4	Pin Bushing	FP-R57450		w/Con. Rod marked R54617; Pin dia. 1.38"; w/1.38" pin dia.
4	Pin Bushing	FP-R57451		w/Con. Rod marked R56187, R116851; Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	FP-R74195		w/Con. Rod marked R54617, R56187, R116851; Torque-To-Yield bolt; Replacement recommended
4	Rod Pair	FP-AR97517	STD	
4	Rod Pair	FP-AR97653	10	
4	Rod Pair	FP-AR97654	20	
4	Rod Pair	FP-AR97655	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE507852	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66820	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-276DSPIFK		w/Con. Rod marked R54617; Pin dia. 1.38"; w/1.38" pin dia.

(continued on next page)

67 (cont.) *Loader* **4276D Eng.** *Wheel Tractor* **4276D Eng.** *Crawler Tractor* **4276D Eng.** *Loader Tractor* **4276D Eng.** *Excavator* **4276D Eng.** *Skidder* **4276D Eng.** *Dozer* **4276D Eng.** *Backhoe* **4276D Eng.** *Feller Buncher* **4276D Eng.**

4.5L 276 OHV Diesel L4 (Standard), 4.1875" Bore

KITS (cont.)

QTY	OVERHAUL KIT (cont.)	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-276DLPIFK		w/Con. Rod marked R56187, R116851; Pin dia. 1.62"; w/1.62" pin dia.
1	Complete Overhaul Kit	FP-276DSPOHK		w/Con. Rod marked R54617; Pin dia. 1.38"; Incl. front & rear seals; Crankshaft marked R120009; w/1.38" pin dia.
1	Complete Overhaul Kit	FP-276DLPOHK		w/Con. Rod marked R56187, R116851; Pin dia. 1.62"; Incl. front & rear seals; Crankshaft marked R120009; w/1.62" pin dia.

68 *Loader* **4276T Eng.** *Wheel Tractor* **4276T Eng.** *Crawler Tractor* **4276T Eng.** *Loader Tractor* **4276T Eng.** *Excavator* **4276T Eng.** *Skidder* **4276T Eng.** *Dozer* **4276T Eng.** *Backhoe* **4276T Eng.**

4.5L 276 OHV Turbo-Diesel L4 (Standard), 4.1875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R73521		Rocker arm cover codes 1101, 1102, 1104, 1110
1	Valve Cover Gasket	FP-T20075		To Ser. No. 598,042
1	Head Gasket	FP-R125863		From Ser. No. 100,001; Manufactured after 1983
1	Head Gasket	FP-R125863		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	Head Set	FP-RE38851		From Ser. No. 100,001; Manufactured after 1983
1	Head Set	FP-RE38851		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R83071	*STD*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3720" Stem Dia., 5.1660" O.A.L.
4	Intake	FP-R89223	*3*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3750" Stem Dia., 5.1660" O.A.L.
4	Intake	FP-R89224	*15*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3870" Stem Dia., 5.1660" O.A.L.
4	Intake	FP-R79623	*STD*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79628	*3*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79629	*15*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79630	*30*	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79624	*STD*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79625	*3*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79626	*15*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79627	*30*	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
16	Keeper	FP-41339		1 groove; Square cut key groove
16	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	FP-R51734	*STD*	
4	Int.	FP-R73064	*STD*	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	FP-RE11410		Exh. & Int.
1	Bushing	FP-T26321		Lower
1	Bushing	FP-T20034		Upper
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover codes 1101, 1104; Oil filler neck codes 1201, 1202, 1203

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-R87627		O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube codes 2909, 2915

(continued on next page)

Loader **4276T Eng.** *Wheel Tractor* **4276T Eng.** *Crawler Tractor* **4276T Eng.** *Loader Tractor* **4276T Eng.** *Excavator* **4276T Eng.** *Skidder* **4276T Eng.** *Dozer* **4276T Eng.** *Backhoe* **4276T Eng.** **68 (cont.)**

4.5L 276 OHV Turbo-Diesel L4 (Standard), 4.1875" Bore

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3001, 3017, 3018

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Delco-Remy No. 1102936; 61 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. A12NJD453; 35 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. A12NJD604; 55 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. 8TA2009ES; 30 amp alternator
1	Ball Brg.	FP-JD9449		Front; 12 Volt, 63 amp alternator; 72 amp alternator; 78 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Codes 3101, 3102, 3103, 3104, 3105, 3106, 3107, 3108, 3109, 3110, 3111, 3112, 3113, 3114, 3115, 3116, 3129; 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
4	Exhaust Manifold Gasket	FP-R90658		
1	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
4	Fuel Injector Nozzle	FP-RE37503		Nozzle codes 1602, 1603, 1605; From Ser. No. 100,001; Manufactured after 1983
4	Fuel Injector Nozzle	FP-RE37503		Nozzle codes 1602, 1603, 1605; From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
4	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1602, 1603, 1605; 9.270MM X 13.600MM X 5.080MM
4	Fuel Injector Seal	FP-R92352		Upper packing; w/Stanadyne® nozzle No. 26993
4	Fuel Injector Nut	FP-R79604		w/Injector marked 20291, 20504, 22205, 22264, 26993
8	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1602, 1603, 1605
4	Washer Type Seal	FP-R48000		Lower; w/Nozzle codes 1602, 1603, 1605; w/Nozzle marked 26993
4	Washer Type Seal	FP-R60746		Upper; Nozzle codes 1602, 1603, 1605; From Ser. No. 609,312

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Transfer pump
1	Fuel Transfer Pump Gasket	FP-R97350		

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		
1	Turbocharger Mounting Gasket	FP-R89879		From Ser. No. 100,001; Manufactured after 1983
1	Turbocharger Mounting Gasket	FP-R89879		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	Turbocharger Oil Supply Gskt.	FP-R97348		To Ser. No. 148,514

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	FP-R56812		Pump code 2001
1	Water Pump Repair/Rebuild Kit	FP-864340979		w/Pump housing marked R51661, R73606, R73724, R79171
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	FP-R56809		w/Pump housing marked AR80116
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked AR80116
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R54805, R59049
1	Shaft & Bearing Assembly	FP-JD8643		w/Pump housing marked AR80116

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2204; 180 Deg.
1	Thermostat Gasket	FP-T20219		Thermostat housing code 3901
1	Thermostat Cover Gasket	FP-T20215		Thermostat cover codes 2101, 2102
2	O-Ring	FP-R56461		Thermostat housing tube seals; Housing code 3901

(continued on next page)

68 (cont.) *Loader* **4276T Eng.** *Wheel Tractor* **4276T Eng.** *Crawler Tractor* **4276T Eng.** *Loader Tractor* **4276T Eng.** *Excavator* **4276T Eng.** *Skidder* **4276T Eng.** *Dozer* **4276T Eng.** *Backhoe* **4276T Eng.**

4.5L 276 OHV Turbo-Diesel L4 (Standard), 4.1875" Bore

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	**FP-R97351**		Use w/Flywheel housing marked R120034, R98778; Use w/thin profile flywheel housing
1	Oil Pan Gasket	**FP-R97342**		w/Stamped Steel Pan
1	O-Ring	**FP-U13639**		Block coolant drain plug seal; 1.475" X .118"
1	Block to End Plate Front Gskt	**FP-R131794**		From Ser. No. 100,001; Manufactured after 1983
1	Block to End Plate Front Gskt	**FP-R131794**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	**FP-PG219CS**		Wear sleeve incl.
1	In-Frame Gasket Set	**FP-PG219S**		
1	Complete Overhaul Gasket Set	**FP-RE37715**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE37715WS**		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.
1	Kit Gasket Set	**260-1392**		Compl.; Rear main brg. seal incl.; Wear sleeve incl.

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	**FP-R57160S**		
6	Balance Shaft Bearing	**FP-R57160**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler Gasket	**FP-R98486**		From Ser. No. 100,001; Manufactured after 1983
1	Oil Cooler Gasket	**FP-R98487**		From Ser. No. 100,001; Manufactured after 1983; Lower oil cooler cover
1	Oil Cooler Gasket	**FP-R98486**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	Oil Cooler Gasket	**FP-R98487**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83; Lower oil cooler cover
1	O-Ring	**FP-A4730R**		From Ser. No. 100,001; Manufactured after 1983; Oil cooler to block check valve seal
1	O-Ring	**FP-A4730R**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83; Oil cooler to block check valve seal
1	O-Ring	**FP-R56815**		Oil cooler housing outer seal; From Ser. No. 100,001; Manufactured after 1983
1	O-Ring	**FP-R56815**		Oil cooler housing outer seal; From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE56792**		Crankshaft marked R54501, R108657
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft codes 1301, 1302; Crankshaft marked R120009

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		
1	O-Ring	**FP-H35244**		Crankshaft pulley; Crankshaft marked R12009

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3004**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300410**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300420**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300430**	*30*	w/Flanged thrust brg.
4	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
4	Thrust Washer	**FP-R78598**	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil pump inlet; w/Pump housing marked R54629
1	O-Ring	**FP-R80632**		Oil Pump outlet tube
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1201, 1202, 1203
1	Oil Filter Adapter Gasket	**FP-R98488**		w/Filter adapter marked R131238

(continued on next page)

Loader **4276T Eng.** *Wheel Tractor* **4276T Eng.** *Crawler Tractor* **4276T Eng.** *Loader Tractor* **4276T Eng.** *Excavator* **4276T Eng.** *Skidder* **4276T Eng.** *Dozer* **4276T Eng.** *Backhoe* **4276T Eng.** — **68 (cont.)**

4.5L 276 OHV Turbo-Diesel L4 (Standard), 4.1875" Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	OIL PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Oil Pump Seal Ring	**FP-R79563**		Oil pump outlet adapter; w/Pump marked R54629; To Ser. No. 122,703

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	**FP-R121867**	*STD*	
4	Liner w/Sealing Rings	**FP-RE500024**	*STD*	Pin dia. 1.62"
4	Cylinder Kit Complete	**FP-RE19832**	*STD*	w/Con. Rod marked R56187; Pin dia. 1.62"
4	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		
4	Sealing Ring, Liner	**FP-R48767**		Rectangle; Top
4	Sealing Ring, Liner	**FP-R26121**		Round; Middle
4	Sealing Ring	**FP-SLR2520**		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	**FP-AR96389**		
4	Piston Kit w/Pin & Retainers	**FP-AR96389WP**		
4	Pin	**FP-R124230**		1.62" pin dia.
8	Piston Pin Retainer	**FP-R54114**		For 1.62" pin dia.
4	Pin Bushing	**FP-R57451**		w/Con. Rod marked R56187, R116851; Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	**FP-R74195**		w/Con. Rod marked R54617, R56187, R116851; Torque-To-Yield bolt; Replacement recommended
4	Rod Pair	**FP-AR97517**	*STD*	
4	Rod Pair	**FP-AR97653**	*10*	
4	Rod Pair	**FP-AR97654**	*20*	
4	Rod Pair	**FP-AR97655**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	**FP-RE507852**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	**FP-RE66820**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-276TIFK**		w/Con. Rod marked R56187, R116851; Pin dia. 1.62"; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-276TOHK**		w/Con. Rod marked R56187, R116851; Pin dia. 1.62"; Incl. front & rear seals; Crankshaft codes 1301, 1302; Crankshaft marked R120009; Incl. Torque-To-Yield con. rod bolts

Combine **JXC Eng.** — **69**

4.6L 282 L-HEAD L6, 3.75" Bore (Hercules Eng.)

CYL. HEAD & PARTS

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	**FP-VG414**		.3745" ID, 2.3600" O.A.L.

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-1090M**		

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Plain Main Brg.	**FP-2241CP10**	*10*	Position 1
1	Plain Main Brg.	**FP-2241CP20**	*20*	Position 1
1	Plain Main Brg.	**FP-2241CP30**	*30*	Position 1
4	Plain Main Brg.	**FP-2243CP10**	*10*	Position 2-3-5-6
4	Plain Main Brg.	**FP-2243CP20**	*20*	Position 2-3-5-6
4	Plain Main Brg.	**FP-2243CP30**	*30*	Position 2-3-5-6
1	Plain Main Brg.	**FP-2242CP10**	*10*	Position 4
1	Plain Main Brg.	**FP-2242CP20**	*20*	Position 4
1	Plain Main Brg.	**FP-2242CP30**	*30*	Position 4
1	Plain Main Brg.	**FP-2244CP10**	*10*	Position 7
1	Plain Main Brg.	**FP-2244CP20**	*20*	Position 7
1	Plain Main Brg.	**FP-2244CP30**	*30*	Position 7

(continued on next page)

69 *Combine* JXC Eng.
(cont.) 4.6L 282 L-HEAD L6, 3.75" Bore (Hercules Eng.)

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	FP-1424X		Drilled rod type bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-1420CP	STD	w/1.9870-1.9880" std. shaft size
6	Rod Pair	FP-1420CP10	10	w/1.9870-1.9880" std. shaft size
6	Rod Pair	FP-1420CP20	20	w/1.9870-1.9880" std. shaft size
6	Rod Pair	FP-1420CP40	40	w/1.9870-1.9880" std. shaft size

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	FP-645KX	STD	3-1/8, 1-3/16

70 *Wheel Tractor* 4-71 (2-Valve Cyl. Head), 4-71N (4-Valve Cyl. Head) Engs.
4.7L 284 OHV Diesel L4 (4-71), 4.25" Bore (Detroit Diesel Eng.)

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-5104081		Engs. w/cast Alum. valve cover; Silicone
1	Valve Cover Gasket	FP-5143406		Engs. w/Steel valve cover; Neoprene

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
8	Exhaust	FP-5185327		4-71 Engs.; 1 groove, 30 deg. seat; 1.5840" Head Dia., .3420" Stem Dia., 6.4440" O.A.L.
16	Exhaust	FP-8922516		4-71N Engs.; 30 deg. seat; 1.1800" Head Dia., .3103" Stem Dia., 5.5280" O.A.L.
8	Exhaust Valve Kit	FP-5193197		4-71 Engs.; 30 deg. seat; Contains (1) FP-5185327 & (2) FP-23507238; 30 Degree
8	Exhaust Valve Kit	FP-5193666		4-71 Engs.; 30 deg. seat; Jet Blade; Contains (1) FP-5186381 & (2) FP-23507238; 30 Degree
8	Exhaust Valve Kit	FP-5192718		4-71 Engs.; 45 deg. seat; Contains (1) FP-5178472 & (2) FP-23507238; 45 Degree
16	Exhaust Valve Kit	FP-5149386		4-71N Engs.; Contains (1) FP-5104280 & (2) FP-5111337
16	Exhaust Valve Kit	FP-23500501		4-71N Engs.; Contains (1) FP-8922516 & (2) FP-5111337
16	Keeper	FP-23507238		4-71 Engs.; 1 groove; Square cut key groove
16	Keeper	VK-115R		4-71 Engs.; 1 groove; Square cut key groove; Hardened
16	Keeper	VK-63		4-71 Engs.; 2 groove; Round key groove
32	Keeper	FP-5111337		4-71N Engs.; 1 groove; Square cut key groove
32	Keeper	VK-144R		4-71N Engs.; 1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	VK-115B		4-71 Engs.; 1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
8	Exh.	FP-5198230	10	4-71 Engs.; 30 deg. seat; 30 Deg. seat; .010" O/S; 1.6380" OD, 1.3440" ID, .2485" Depth
8	Exh.	FP-8927920	STD	4-71 Engs.; 30 deg. seat; 30 Deg. seat; 1.6280" OD, 1.3440" ID, .2485" Depth
16	Exh.	FP-5197167	10	4-71N Engs.; 30 deg. seat; 30 Deg. seat; .010" O/S; 1.2720" OD, .9770" ID, .2355" Depth
16	Exh.	FP-5101101	STD	4-71N Engs.; 30 deg. seat; 30 Deg. seat; 1.2620" OD, .9770" ID, .2490" Depth

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	FP-5192717		4-71 Engs.; .0162" O/S
8	Guide	FP-5120930		4-71 Engs.; .3450" ID, 3.2500" O.A.L.
16	Guide	FP-5129919		4-71N Engs.; 2 3/8" length; Cut for seal; 2 3/8" length; .3130" ID, 2.3800" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-5150289		4-71 Engs.; .177" Wire dia.
16	Spring	FP-5147347		4-71N Engs.; .148" Wire dia.
8	Valve Spring Seat	FP-5150292		4-71 Engs.
16	Valve Spring Seat	FP-5117562		4-71N Engs.
16	Spring Insert	FP-5111467		Exh. Valve Spring Washer
8	Spring Cap	FP-5150291		4-71 Engs.
16	Spring Cap	FP-5117563		4-71N Engs.

QTY	PUSH RODS	PART NO.	SIZE	DESCRIPTION
12	Push Rod	FP-5128640		
12	Push Rod Seat	FP-5123250		Lower
12	Push Rod Seat	FP-5150302		Upper; Flange type
12	Push Rod Spring	FP-5186858		.177" Wire diameter
12	Push Rod Retainer	FP-5150303		
12	Lock Nut	FP-5151601		Push rod; 5/16" - 24
12	Rect. or Square Seal	FP-5154472		Push rod

(continued on next page)

Wheel Tractor **4-71 (2-Valve Cyl. Head), 4-71N (4-Valve Cyl. Head) Engs.** **70**
4.7L 284 OHV Diesel L4 (4-71), 4.25" Bore (Detroit Diesel Eng.) **(cont.)**

CYL. HEAD & PARTS (cont.)

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	**ST-2001**		4-71 Engs.; Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal	**FP-23500480**		4-71 Engs.; O.D. .562"
16	Valve Stem Seal	**FP-8921209**		4-71N Engs.; Use w/FP-5129919 guide
8	Valve Stem Seal Bulk	**ST-2001BC**		4-71 Engs.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
4	Arm Assy.	**FP-5148472**		Exh. Left
4	Arm Assy.	**FP-5148475**		Exh. Right
4	Arm Assy.	**FP-8923554**		Injector
2	Rocker Shaft	**FP-23500714**		
8	Rocker Shaft Bracket Bolt	**FP-5150325**		1/2" - 13 x 4.250"
24	Arm Support	**FP-5103903**		
8	Rocker Bushing	**FP-23517217**		Large; .8755" ID, .9475" OD, .840" Length, .0360" Wall thickness
4	Rocker Bushing	**FP-8924355**		Large; Injector bushing
4	Rocker Bushing	**FP-8924354**		Small; Injector bushing
8	Rocker Bushing	**FP-8924354**		Small; Rocker bushing
8	Rocker Bushing	**FP-5123700**		Exh.; Clevis bushing; .5625" OD
4	Rocker Bushing	**FP-5123700**		Injector; Clevis bushing; .5625" OD
12	Follower Assy.	**FP-8924439**		
24	Cam Follower Roller Set	**FP-8923814**		Incl. pin & roller
8	Valve Bridge Adj. Screw	**FP-5129101**		5/16" - 24 x 1"
8	Valve Bridge	**FP-5117565**		
8	Valve Bridge Guide	**FP-5117564**		Press fit
8	Valve Bridge Guide	**FP-5196843**		Threaded
8	Rocker Arm Clevis Pin	**FP-5150314**		Exh.
4	Rocker Arm Clevis Pin	**FP-5150314**		Injector

CAMSHAFT GROUP

QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Idler Gear Hub Assembly	**FP-5124458**		

QTY	CAMSHAFT TIMING	PART NO.	SIZE	DESCRIPTION
2	Camshaft Pulley Spacer	**FP-5121071**		Front

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
2	Camshaft Thrust Washer	**FP-5111424**	*STD*	
2	Camshaft Thrust Washer	**FP-5194826**	*5*	
2	Camshaft Thrust Washer	**FP-5194827**	*10*	
8	Bolt	**FP-443603**		Cam guide; .250" x 20 x .750"
8	Lock Washer	**FP-103319**		Cam guide; .250"
8	Lock Washer	**FP-103320**		Cam guide; 5/16"

ACCESSORY DRIVE

QTY	ACCESSORY DRIVE	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-5131329**		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
4	Fuel Injector Seal Ring	**FP-5104701**		Viton®
4	Injector Hole Tube Kit	**FP-8925981**		Viton®

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
2	Cylinder Cover Gasket	**FP-23505518**		End plate

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	**FP-23512675**		High block; Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-23512675WS**		High block; Incl. Crankshaft seals
1	Complete Overhaul Gasket Set	**FP-5192922**		Low block

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
2	Cam Brg.	**FP-5111423**	*STD*	Position Front & Rear; Grooved
3	Cam Brg.	**FP-5196026**	*STD*	Position Inter.; w/o Steel bushing in ctr. hole; Aluminum Blocks only
3	Cam Brg.	**FP-5196022**	*STD*	Position Inter.; W/Steel bushing in ctr. hole

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Spacer	**FP-23507306**		Front; 2.50" ID x 2.81" Length
1	Oil Seal Spacer	**FP-5192496**		Rear; Exc. for double lip seal

(continued on next page)

70 (cont.) *Wheel Tractor* 4-71 (2-Valve Cyl. Head), 4-71N (4-Valve Cyl. Head) Engs.

4.7L 284 OHV Diesel L4 (4-71), 4.25" Bore (Detroit Diesel Eng.)

CRANKSHAFT/OIL PUMP (cont.)

QTY	SEALS - FRONT CRANK (cont.)	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-5115454		Single Lip, Std.
1	Oil Seal	FP-5143108		Submersible

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-5196927		Double Lip; O/S Shaft Dia. 4.812"
1	Oil Seal	FP-5127821		Double Lip, Std.; Shaft Dia. 4.687"
1	Oil Seal	FP-5197860		Single lip; O/S Shaft dia. 4.812"
1	Oil Seal	FP-5114335		Single Lip, Std.; Shaft Dia. 4.687"
1	Redi-Sleeve	FP-23507225		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
5	Plain Main Brg.	FP-5192874	STD	
5	Plain Main Brg.	FP-5192875	2	
5	Plain Main Brg.	FP-5192876	10	
5	Plain Main Brg.	FP-5192877	20	
5	Plain Main Brg.	FP-5192878	30	
5	Plain Main Brg.	FP-5193738	40	
5	Plain Main Brg.	FP-5193739	50	
1	Thrust Washer Set	FP-5159353S	STD	Position Rear
4	Thrust Washer	FP-5159353	STD	Position Rear
4	Thrust Washer	FP-5160542	5	Position Rear
4	Thrust Washer	FP-5192111	10	Position Rear

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	FP-5102316	5	Flanged, .810" port length
4	Liner w/o Sealing Ring	FP-5102317	10	Flanged, .810" port length
4	Liner w/o Sealing Ring	FP-5102318	20	Flanged, .810" port length
4	Liner w/o Sealing Ring	FP-5102319	30	Flanged, .810" port length
4	Liner w/o Sealing Ring	FP-5193732	5	Flanged, 1.050" port length
4	Liner w/o Sealing Ring	FP-5193733	10	Flanged, 1.050" port length
4	Liner w/o Sealing Ring	FP-5193734	20	Flanged, 1.050" port length
4	Liner w/o Sealing Ring	FP-5193735	30	Flanged, 1.050" port length
4	Liner w/o Sealing Ring	FP-23504931	STD	No. 1 Bore; Flanged, .810" port length
4	Liner w/o Sealing Ring	FP-23502020	STD	No. 1 Bore; Flanged, 1.050" port length
4	Liner w/o Sealing Ring	FP-23504932	STD	No. 2 Bore; Flanged, .810" port length
4	Liner w/o Sealing Ring	FP-23502021	STD	No. 2 Bore; Flanged, 1.050" port length
4	Liner w/o Sealing Ring	FP-23504933	STD	No. 3 Bore; Flanged, .810" port length
4	Liner w/o Sealing Ring	FP-23502022	STD	No. 3 Bore; Flanged, 1.050" port length
4	Liner w/o Sealing Ring	FP-23504934	STD	No. 4 Bore; Flanged, .810" port length
4	Liner w/o Sealing Ring	FP-23504936	STD	No. 4 Bore; Flanged, 1.050" port length
4	Cylinder Kit Complete	FP-235229495	5	w/Cross Head style piston; 1.050" port length sleeve
4	Cylinder Kit Complete	FP-23522951	10	w/Cross Head style piston; 1.050" port length sleeve
4	Cylinder Kit Complete	FP-23522525	20	w/Cross Head style piston; 1.050" port length sleeve
4	Cylinder Kit Complete	FP-2352294930	30	w/Cross Head style piston; 1.050" port length sleeve
4	Cylinder Kit Complete	FP-235053095	5	4-71 Engs.; w/Trunk style piston; .810" port length sleeve
4	Cylinder Kit Complete	FP-2350530910	10	4-71 Engs.; w/Trunk style piston; .810" port length sleeve
4	Cylinder Kit Complete	FP-2350530920	20	4-71 Engs.; w/Trunk style piston; .810" port length sleeve
4	Cylinder Kit Complete	FP-2350530930	30	4-71 Engs.; w/Trunk style piston; .810" port length sleeve
4	Cylinder Kit Complete	FP-235053065	5	4-71N Engs.; w/Trunk style piston; 1.05" port length sleeve
4	Cylinder Kit Complete	FP-5149263	10	4-71N Engs.; w/Trunk style piston; 1.05" port length sleeve
4	Cylinder Kit Complete	FP-5149264	20	4-71N Engs.; w/Trunk style piston; 1.05" port length sleeve
4	Cylinder Kit Complete	FP-2350530630	30	4-71N Engs.; w/Trunk style piston; 1.05" port length sleeve
4	Cylinder Kit Complete	FP-20022	STD	No. 1 Bore; w/Cross Head style piston
4	Cylinder Kit Complete	FP-20014	STD	No. 1 Bore; 4-71 Engs.; w/Trunk style piston
4	Cylinder Kit Complete	FP-20011	STD	No. 1 Bore; 4-71N Engs.; w/Trunk style piston; 1.05" port length sleeve
4	Cylinder Kit Complete	FP-23522949	STD	No. 2 Bore; w/Cross Head style piston; 1.050" port length sleeve
4	Cylinder Kit Complete	FP-23505308	STD	No. 2 Bore; 4-71 Engs.; w/Trunk style piston; .810" port length sleeve
4	Cylinder Kit Complete	FP-23505305	STD	No. 2 Bore; 4-71N Engs.; w/Trunk style piston; 1.05" port length sleeve
4	Cylinder Kit Complete	FP-23522947	STD	No. 3 Bore; w/Cross Head style piston; 1.050" port length sleeve
4	Cylinder Kit Complete	FP-23505309	STD	No. 3 Bore; 4-71 Engs.; w/Trunk style piston
4	Cylinder Kit Complete	FP-23505306	STD	No. 3 Bore; 4-71N Engs.; w/Trunk style piston; 1.05" port length sleeve
4	Cylinder Kit Complete	FP-23522521	STD	No. 4 Bore; w/Cross Head style piston; 1.050" port length sleeve
4	Cylinder Kit Complete	FP-235053091	1	No. 4 Bore; 4-71 Engs.; w/Trunk style piston; .810" port length sleeve

(continued on next page)

Wheel Tractor **4-71 (2-Valve Cyl. Head), 4-71N (4-Valve Cyl. Head) Engs.** **70**
4.7L 284 OHV Diesel L4 (4-71), 4.25" Bore (Detroit Diesel Eng.) **(cont.)**

CYLINDER COMPONENTS (cont.)

QTY	LINERS (cont.)	PART NO.	SIZE	DESCRIPTION
4	Cylinder Kit Complete	**FP-5149261**	*STD*	No. 4 Bore; 4-71N Engs.; w/Trunk style piston; 1.05" port length sleeve
4	Liner Kit w/o Sleeve	**FP-LCK5309**		4-71 Engs.; 17.5:1 C.R.; w/Trunk style piston
4	Liner Kit w/o Sleeve	**FP-LCK5306**		4-71N Engs.; 18.7:1 C.R.; w/Trunk style piston
4	O-Ring	**FP-8922221**		w/Cross Head style piston
4	Cntr. Bore Insert	**FP-5199871**		.0015" Thicker than std., for .010-.030 O/S sleeves
4	Cntr. Bore Insert	**FP-5148399**		.0015" Thicker than std., for std.-.005 O/S sleeves
4	Cntr. Bore Insert	**FP-5148440**		.0015" Thinner than std., for std.-.005 O/S sleeves
4	Cntr. Bore Insert	**FP-5194073**		.0035 Thinner than std., for std.-.005 O/S sleeves
4	Cntr. Bore Insert	**FP-5194163**		.0040 Thinner than std., for .010-.030 O/S sleeves
4	Cntr. Bore Insert	**FP-5194164**		.0080" Thinner than std., for .010-.030 O/S sleeves
4	Cntr. Bore Insert	**FP-5193316**		Std. thickness (.1795-.1800), for .010-.030 O/S sleeves
4	Cntr. Bore Insert	**FP-5184484**		Std. thickness (.1795-.1800), for std.-.005 O/S sleeves

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Kit w/Pin & Retainers	**FP-23522497**	*STD*	w/Cross Head style piston
4	Piston With Retainers	**FP-5189054**	*STD*	4-71 Engs.; w/Trunk style piston; Dish Head, Cast Iron; 4-1/8, 2-3/16 Ring Groove
4	Piston With Retainers	**FP-5149234**	*STD*	4-71N Engs.; w/Trunk style piston
4	Piston Dome Kit	**FP-23522475**		17.0:1 C.R.; w/Cross Head style piston
4	Piston Dome Kit	**FP-23522535**		18.7:1 C.R.; w/Cross Head style piston
4	Crosshead Piston Dome	**FP-23521992**	*STD*	17.0:1 C.R.; w/Cross Head style piston
4	Crosshead Piston Dome	**FP-23522026**	*STD*	18.7:1 C.R.; w/Cross Head style piston
4	Piston Skirt	**FP-23522070**	*STD*	w/Cross Head style piston
4	Pin	**FP-5144744**	*STD*	w/Cross Head style piston; Nut plate type
4	Pin	**FP-5101120**	*STD*	w/Cross Head style piston; Slipper type
4	Pin	**FP-5188406**	*STD*	w/Trunk style piston
4	Pin	**FP-5144495**	*STD*	w/Trunk style piston; Drilled
4	Pin	**FP-5130881**	*STD*	w/Trunk style piston; Non-drilled
8	Piston Pin Retainer	**FP-5180250**		w/Cross Head style piston
8	Piston Pin Retainer	**FP-5188405**		w/Trunk style piston
8	Piston Pin Bolt	**FP-5148373**		7/16" - 20 x 2.00" Length
8	Piston Pin Bolt Spacer	**FP-5144846**		w/Cross Head style piston
4	Piston Pin Slipper Bearing	**FP-23501687**		w/Cross Head style piston; Slipper type design - 1 per cyl.
8	Pin Bushing	**FP-5157274**		w/.015" extra ID bore stock
8	Pin Bushing	**FP-2409Y**		w/1.5020" I.D., 1.7510" O.D., .7600" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	**FP-5132383**		.4375" x 20 x 3.52"
8	Con. Rod Nut	**FP-5117629**		.4375" x 20
4	Rod Pair	**FP-23511129**	*STD*	Upper brg. w/2 oil slots
4	Rod Pair	**FP-23511131**	*2*	Upper brg. w/2 oil slots
4	Rod Pair	**FP-23511133**	*10*	Upper brg. w/2 oil slots
4	Rod Pair	**FP-23511135**	*20*	Upper brg. w/2 oil slots
4	Rod Pair	**FP-23511137**	*30*	Upper brg. w/2 oil slots
4	Rod Pair	**FP-5193741**	*40*	Upper brg. w/2 oil slots

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	**FP-23522955**	*STD*	w/Cross Head style piston; Std. gap Fire Ring
4	Ring Set Single Cylinder	**FP-23522954**	*STD*	w/Cross Head style piston; Wide gap Fire Ring
4	Ring Set Single Cylinder	**FP-5193477**	*STD*	4-71 Engs.; w/Trunk style piston; 4-1/8, 2-3/16 (1 cyl. set w/4 Chrome rings)
4	Ring Set Single Cylinder	**FP-23514970**	*STD*	4-71N Engs.; w/Trunk style piston; 4-.084, 2-3/16 (1 cyl. Set)
4	Compression Ring	**FP-8924084**		w/Cross Head style piston; Std. gap Fire Ring
4	Compression Ring	**FP-8924083**		w/Cross Head style piston; Wide gap Fire Ring
8	Compression Ring	**FP-8926351**		w/Cross Head style piston; 2nd & 3rd grooves
16	Compression Ring	**FP-5185325**		4-71 Engs.; Trunk style piston
12	Compression Ring	**FP-5102648**		4-71N Engs.; Trunk style piston
8	Ring, Oil Control Set	**FP-23522534**		w/Cross Head style piston
4	Ring, Oil Control Set	**FP-23514965**		4-71N Engs.; Trunk style piston; Set for one piston

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-471XH**		Cross head turbo; w/4 valve head; Upper rod brg. w/2 oil slots
1	In-Frame Overhaul Kit	**FP-4712V**		4-71 Engs.; w/Trunk style piston; w/2 valve head; Upper rod brg. w/2 oil slots
1	In-Frame Overhaul Kit	**FP-471NA**		4-71N Engs.; w/Trunk style piston; w/4 valve head; Upper rod brg. w/2 oil slots
1	Complete Overhaul Kit	**FP-471XHOH**		w/Cross Head style piston; Upper brg. w/2 oil slots; Incl. High block gskts.

(continued on next page)

70 (cont.) *Wheel Tractor* 4-71 (2-Valve Cyl. Head), 4-71N (4-Valve Cyl. Head) Engs.
4.7L 284 OHV Diesel L4 (4-71), 4.25" Bore (Detroit Diesel Eng.)

KITS (cont.)

QTY	OVERHAUL KIT (cont.)	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	FP-4712VOH		4-71 Engs.; w/Trunk style piston; Upper brg. w/2 oil slots; Incl. High block & Low block gskt. sets
1	Complete Overhaul Kit	FP-471NAOH		4-71N Engs.; w/Trunk style piston; Upper brg. w/2 oil slots; Incl. High block gskts.

71 *Combine* 301G Eng. *Wheel Tractor* 301G Eng.
4.9L 302 OHV L6, 4" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-V1635		1.6880" Head Dia., .3720" Stem Dia., 5.7000" O.A.L.
6	Exhaust	FP-V1634		1.5000" Head Dia., .3720" Stem Dia., 5.7310" O.A.L.
24	Keeper	FP-B367R		2 groove

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Int.	FP-R78702	STD	1.7550" OD, 1.5000" ID, .2160" Depth

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	FP-VG606		.3750" ID, 2.9400" O.A.L.

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-4R46903	STD	
4	Cam Brg.	FP-R46903	STD	

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE22764		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3007	STD	Early Engs.; w/Flanged brg.
1	Main Set	FP-MBK300710	10	Early Engs.; w/Flanged brg.
1	Main Set	FP-MBK300720	20	Early Engs.; w/Flanged brg.
1	Main Set	FP-MBK300730	30	Early Engs.; w/Flanged brg.
1	Main Set	FP-MBK3005	STD	Late Engs.; w/Thrust washer; w/Blocks marked R40930, R40940
1	Main Set	FP-MBK300510	10	Late Engs.; w/Thrust washer; w/Blocks marked R40930, R40940
1	Main Set	FP-MBK300520	20	Late Engs.; w/Thrust washer; w/Blocks marked R40930, R40940
1	Main Set	FP-MBK300530	30	Late Engs.; w/Thrust washer; w/Blocks marked R40930, R40940
1	Thrust Washer Set	FP-AR77747	STD	

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Sleeve Assy.	FP-SL2084		Contains piston to replace O.E. No. R26089R; O-rings in block

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	FP-3129YA20		1.252" ID, 1.3785" OD, 1.510" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-AR45723	STD	
6	Rod Pair	FP-AR46396	10	
6	Rod Pair	FP-AR46397	20	
6	Rod Pair	FP-AR46398	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
3	Premium Set	FP-5834KX	STD	3-3/32, 2-1/4 (2 cyl. set)
6	Premium Single Cylinder Set	W-5834KX Std Only		3-3/32, 2-1/4 (1 cyl. set)

72 *Combine* 6303G Eng. *Cotton Picker* 6303G Eng. *Power Unit* JD303G, 6303G Engs. *Wheel Tractor* 6303G Eng. *Loader Tractor* 6303G Eng.
5.0L 303 OHV L6, 3.8594" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	FP-R98462		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
24	Keeper	FP-41339		1 groove; Square cut key groove
24	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

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Combine **6303G Eng.** *Cotton Picker* **6303G Eng.** *Power Unit* **JD303G, 6303G Engs.** *Wheel Tractor* **6303G Eng.** *Loader Tractor* **6303G Eng.** **72 (cont.)**

5.0L 303 OHV L6, 3.8594" Bore

CYL. HEAD & PARTS (cont.)

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Motorola Nos. TA12NJD400, 8TA200ES
2	Ball Brg.	FP-JD9449		Front & Rear; 65 amp alternator

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
12	Lifter	FP-T20073		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R94419		w/Pump housing marked R48992
1	Water Pump Impeller	FP-R40979		Models 55, 95H, 95LL, 699
1	Water Pump Repair/Rebuild Kit	FP-939840979		w/Pump housing marked R29701, R48994
1	Water Pump Housing Gasket	FP-T25485		w/Pump housing marked R48994
1	Water Pump Housing Gasket	FP-R97455		Model 6600
1	Water Intake Gasket	FP-T23132		
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked AR80112, RE19939
1	Shaft & Bearing Assembly	FP-JD9398		w/Pump housing marked R48994

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-AR70601		Models 55, 95H, 95LL, 699, 6600; 180 Deg.
1	Thermostat	FP-AR77411		Models 55, 95H, 95LL, 699, 6600; 195 Deg.
1	Thermostat Cover Gasket	FP-T24932		Water manifold marked R61178

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		
1	Block to End Plate Front Gskt	FP-R131794		

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-SK67942		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		
1	O-Ring	FP-H35244		Crankshaft pulley

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3003	STD	w/Flanged thrust brg.
1	Main Set	FP-MBK300310	10	w/Flanged thrust brg.
1	Main Set	FP-MBK300320	20	w/Flanged thrust brg.
1	Main Set	FP-MBK300330	30	w/Flanged thrust brg.

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	FP-RE55343		w/Pump housing marked R54615
1	O-Ring	FP-A4730R		From Ser. No. 243,648; Oil pump pickup to pump cover seal
1	O-Ring	FP-R61871		Oil pump inlet

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/Sealing Rings	FP-AR51902	STD	Early Model JD544
6	Liner w/Sealing Rings	FP-T32340WS	STD	Exc. Early Model JD544

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	FP-T23471		1.1896" ID, 1.313" OD, 1.570" O.A.L.
6	Pin Bushing	FP-R55647		1.3765" ID, 1.500" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-RE27348	STD	
6	Rod Pair	FP-RE27349	10	
6	Rod Pair	FP-RE27358	20	
6	Rod Pair	FP-RE27364	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-AR70633	STD	2-3/32, 1-.196 (1 cyl. set)

73 *Combine* **6303D Eng.** *Cotton Picker* **6303D Eng.** *Grader* **6303D Eng.** *Loader* **6303D Eng.** *Power Unit* **JD303D, 6303D Engs.** *Loader Tractor* **6303D Eng.** *Skidder* **6303D Eng.**
5.0L 303 OHV Diesel L6, 3.8594" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	FP-R98462		
1	Head Set	FP-RE38849		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R79623	STD	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Intake	FP-R79628	3	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
6	Intake	FP-R79629	15	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
6	Intake	FP-R79630	30	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
6	Exhaust	FP-R79624	STD	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Exhaust	FP-R79625	3	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
6	Exhaust	FP-R79626	15	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
6	Exhaust	FP-R79627	30	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
24	Keeper	FP-41339		1 groove; Square cut key groove
24	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R51734	STD	
6	Int.	FP-R73064	STD	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-RE11410		Exh.
1	Bushing	FP-T26321		Lower
1	Bushing	FP-T20034		Upper

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-R87627		O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Motorola Nos. TA12NJD400, 8TA200ES
2	Ball Brg.	FP-JD9449		Front & Rear; 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-R90658		
2	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
12	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Nozzle	FP-AR89564		
12	Washer	FP-T20055		
18	Clamp	FP-R34766		To Ser. No. 108,848
6	Washer Type Seal	FP-R48000		Lower; w/Nozzle marked 18742, 19762, 20500, 20631, 22042, 22202
6	Washer Type Seal	FP-R60746		Upper; w/Nozzle marked 20631, 22042, 22202

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Transfer pump
1	Fuel Transfer Pump Gasket	FP-R97350		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R40979		Models 55, 95H, 95LL, 699
1	Water Pump Repair/Rebuild Kit	FP-939840979		w/Pump housing marked R29701, R48994

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Combine **6303D Eng.** *Cotton Picker* **6303D Eng.** *Grader* **6303D Eng.** *Loader* **6303D Eng.** *Power Unit* **JD303D, 6303D Engs.** *Loader Tractor* **6303D Eng.** *Skidder* **6303D Eng.** 5.0L 303 OHV Diesel L6, 3.8594" Bore

COOLING SYSTEM (cont.)

QTY	WATER PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Water Pump Housing Gasket	FP-T25485		w/Pump housing marked R48994
1	Water Intake Gasket	FP-T23132		
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked AR80112, RE19939
1	Shaft & Bearing Assembly	FP-JD9398		w/Pump housing marked R48994

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat Cover Gasket	FP-T24932		Water manifold marked R61178

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
1	Water Manifold Gasket	FP-T23002		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		
1	Oil Pan Gasket	FP-R97344		
1	Block to End Plate Front Gskt	FP-R131794		

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG303S		
1	Complete Overhaul Gasket Set	FP-RE38568		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE38568WS		Incl. crankshaft seals

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-AT22562		
1	Oil Seal Kit	FP-SK67942		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3006	*STD*	w/Flanged thrust brg.
1	Main Set	FP-MBK300610	*10*	w/Flanged thrust brg.
1	Main Set	FP-MBK300620	*20*	w/Flanged thrust brg.
1	Main Set	FP-MBK300630	*30*	w/Flanged thrust brg.
6	Plain Main Brg.	FP-RE27352	*STD*	
6	Plain Main Brg.	FP-RE27353	*10*	
6	Plain Main Brg.	FP-RE27360	*20*	
6	Plain Main Brg.	FP-RE27368	*30*	
1	Flanged Main Brg.	FP-RE521350	*STD*	
1	Flanged Main Brg.	FP-RE526754	*10*	
1	Flanged Main Brg.	FP-RE527235	*20*	
1	Flanged Main Brg.	FP-RE527236	*30*	
4	Thrust Washer	FP-R78598	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	FP-RE55343		w/Pump housing marked R54615
1	O-Ring	FP-R74354		w/Pump housing marked R54615
1	O-Ring	FP-A4730R		From Ser. No. 243,648; Oil pump pickup to pump cover seal

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-T32340	*STD*	O-Rings in block
6	Liner w/o Sealing Ring	FP-R48635	*STD*	O-Rings on liner
6	Liner w/Sealing Rings	FP-T32340WS	*STD*	From Ser. No. 158,976
6	Liner w/Sealing Rings	FP-AR51902	*STD*	To Ser. No. 158,975
6	Cylinder Kit Complete	FP-AR71591		w/Con. Rod marked T20007, R81410; From Ser. No. 158,796; Contains FP-T32340-WS liner; O-rings in block
6	Cylinder Kit Complete	FP-CK34818635	*STD*	w/Con. Rod marked T20007, R81410; To Ser. No. 158,795; Contains FP-AR51902 liner; O-rings on liner
6	Cyl. Liner Sealing Ring Kit	FP-AR71617		
6	Sealing Ring, Liner	FP-R48767		Rectangle; Top
6	Sealing Ring, Liner	FP-R48637		Rectangle; Top & Bottom
6	Sealing Ring, Liner	FP-R48638		Round
6	Sealing Ring	FP-SLR2497		Round; Bottom; In block

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-T23481		
6	Piston Kit w/Pin & Retainers	FP-T23481WP		
6	Pin	FP-T23482		

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73 (cont.) *Combine* 6303D Eng. *Cotton Picker* 6303D Eng. *Grader* 6303D Eng. *Loader* 6303D Eng. *Power Unit* JD303D, 6303D Engs. *Loader Tractor* 6303D Eng. *Skidder* 6303D Eng.

5.0L 303 OHV Diesel L6, 3.8594" Bore

CYLINDER COMPONENTS (cont.)

QTY	PISTONS (cont.)	PART NO.	SIZE	DESCRIPTION
12	Piston Pin Retainer	FP-R51112		
6	Pin Bushing	FP-T23471		w/Con. Rod marked R81410, T20007; 1.1896" ID, 1.313" OD, 1.570" O.A.L.
6	Pin Bushing	FP-R55647		1.3765" ID, 1.500" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R80033		w/Con. Rod marked R80032, R80034, R81410, R105011, R113612; Torque-To-Yield bolt; Replacement recommended
12	Con. Rod Bolt	FP-R74194		w/Con. Rod marked T20007, R51727, R58979; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	FP-RE27348	*STD*	
6	Rod Pair	FP-RE27349	*10*	
6	Rod Pair	FP-RE27358	*20*	
6	Rod Pair	FP-RE27364	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-AR70633	*STD*	2-3/32, 1-.196 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-303LIFK		w/Block marked R53260,R55035,R72970, R55351,R79280,T32346; w/Con. Rod marked T20007; From Ser. No. 158,796; O-rings in block; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	FP-303EORLIFK		w/Block marked T24967, T24968; w/Con. Rod marked T20007; To Ser. No. 158,795; O-rings on liner; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-303LOHK		w/Block marked R53260, R55035, R55351, R72970, T32346; w/Con. Rod marked T20007; From Ser. No. 158,796; O-rings in block; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-303EORLOHK		w/Block marked T24967, T24968; w/Con. Rod marked T20007; To Ser. No. 158,795; O-rings on liner; Incl. Torque-To-Yield con. rod bolts

74 *Combine* 6303LP Eng. (LPG). *Cotton Picker* 6303LP Eng. (LPG). *Power Unit* 6303LP Eng. (LPG). *Wheel Tractor* 6303LP Eng. (LPG). *Loader Tractor* 6303LP Eng. (LPG).

5.0L 303 OHV LPG L6, 3.8594" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-T20467		
1	Head Gasket	FP-R98462		

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	FP-R87627		O-Ring type

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
12	Lifter	FP-T20073		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R40979		Models 55, 95H, 95LL, 699
1	Water Pump Housing Gasket	FP-T25485		w/Pump housing marked R48994
1	Water Intake Gasket	FP-T23132		
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked AR80112, RE19939

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat Cover Gasket	FP-T24932		Water manifold marked R61178

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R97344		
1	Block to End Plate Front Gskt	FP-R131794		

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-AT22562		
1	Oil Seal Kit	FP-SK67942		Incl. front & rear seals

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Combine **6303LP Eng. (LPG).** *Cotton Picker* **6303LP Eng. (LPG).** *Power Unit* **6303LP Eng. (LPG).** *Wheel Tractor* **6303LP Eng. (LPG).** *Loader Tractor* **6303LP Eng. (LPG).** **74 (cont.)**
5.0L 303 OHV LPG L6, 3.8594" Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		
1	O-Ring	**FP-H35244**		Crankshaft pulley; w/Crankshaft marked R108679

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		Crank marked R108679

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	**FP-RE27352**	*STD*	
6	Plain Main Brg.	**FP-RE27353**	*10*	
6	Plain Main Brg.	**FP-RE27360**	*20*	
6	Plain Main Brg.	**FP-RE27368**	*30*	
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
4	Thrust Washer	**FP-R78598**	*STD*	Crank marked R108679

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	**FP-RE55343**		w/Pump housing marked R54615
1	O-Ring	**FP-R74354**		w/Pump housing marked R54615

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-T32340**	*STD*	From Ser. No. 157,229; O-Rings in block
6	Liner w/Sealing Rings	**FP-AR51902**	*STD*	To Ser. No. 157,228
6	Sealing Ring, Liner	**FP-R48767**		From Ser. No. 157,228 to Ser. No. 158,975; Rectangle; Top
6	Sealing Ring, Liner	**FP-R48637**		To Ser. No. 157,228; Rectangle; Top & Bottom
6	Sealing Ring, Liner	**FP-R48638**		To Ser. No. 158,975; Round

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	**FP-T23471**		1.1896" ID, 1.313" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	**FP-RE27348**	*STD*	
6	Rod Pair	**FP-RE27349**	*10*	
6	Rod Pair	**FP-RE27358**	*20*	
6	Rod Pair	**FP-RE27364**	*30*	

Wheel Tractor **A Eng.** **75**
5.0L 308 OHV L2, 5.5" Bore

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	**FP-PG308FS**		Models A, AH, AI, AN, ANH, AW, AWH; From Ser. No. 41000 to 487999
1	Complete Overhaul Gasket Set	**FP-PG308XFS**		Models A, AH, AI, AN, ANH, AW, AWH; From Ser. No. 584000
1	Complete Overhaul Gasket Set	**FP-PG308FS**		Models AO, AR; From Ser. No. 250000 to Ser. No. 259999

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
2	Cone Taper Brg.	**FP-JD8135**		Position 1-2; From Ser. No. 620,324
2	Cup Taper Brg.	**FP-JD7438**		Position 1-2; From Ser. No. 620,324

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
2	Pin Bushing	**FP-9759**		w/1.750" ID, 1.895" OD, 2.500" O.A.L.
2	Pin Bushing	**9759 +**		w/1.750" ID, 1.895" OD, 2.500" O.A.L.; When depleted use FP-9759

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	**FP-1910CP**	*STD*	Insert type brgs.; From Ser. No. 488,000
2	Rod Pair	**FP-1910CP10**	*10*	Insert type brgs.; From Ser. No. 488,000
2	Rod Pair	**FP-1910CP20**	*20*	Insert type brgs.; From Ser. No. 488,000

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Standard Set	**FP-5097C**	*STD*	4-3/16, 1-5/16

76 *Wheel Tractor* A, 60 Engs.
5.3L 321 OHV L2, 5.5" Bore

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PG308FS		Models A, AH, AI, AN, ANH, AW, AWH; From Ser. No. 41000 to Ser. No. 487999
1	Complete Overhaul Gasket Set	FP-PG308XFS		Models A, AH, AI, AN, ANH, AW, AWH; From Ser. No. 584000
1	Complete Overhaul Gasket Set	FP-PG308FS		Models AO, AR; From Ser. No. 250000 to Ser. No. 259999

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
2	Cone Taper Brg.	FP-JD8135		Position 1-2; From Ser. No. 620,324
2	Cup Taper Brg.	FP-JD7438		Position 1-2; From Ser. No. 620,324

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
2	Pin Bushing	FP-9759		w/1.750" ID, 1.895" OD, 2.500" O.A.L.
2	Pin Bushing	9759 +		w/1.750" ID, 1.895" OD, 2.500" O.A.L.; When depleted use FP-9759

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	FP-1910CP	*STD*	Insert type brgs.; From Ser. No. 488,000
2	Rod Pair	FP-1910CP10	*10*	Insert type brgs.; From Ser. No. 488,000
2	Rod Pair	FP-1910CP20	*20*	Insert type brgs.; From Ser. No. 488,000

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Standard Set	FP-5097C	*STD*	4-3/16, 1-5/16

77 *Combine* 6329G Eng. *Cotton Picker* 6329G Eng. *Power Unit* JD329G, 6329G Engs.
5.4L 329 OHV L6, 4.0156" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R75728		Combine Model 6600; From Ser. No. 4,193 to Ser. No. 157,490

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
24	Keeper	FP-41339		1 groove; Square cut key groove
24	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	FP-T20328		

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Motorola Nos. TA12NJD400, 8TA2009ES; 30 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola Nos. 8MA2X01, 8MR2001
2	Ball Brg.	FP-JD9449		Front & Rear; 55 amp alternator; 65 amp alternator; 72 amp alternator

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
12	Lifter	FP-T20073		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R94419		w/Pump housing marked R48992
1	Water Pump Impeller	FP-R40979		w/Pump housing marked R48994, R56787
1	Water Pump Repair/Rebuild Kit	FP-939840979		w/Pump housing marked R29701, R48994
1	Water Pump Housing Gasket	FP-T25485		w/Pump housing marked R48994, R56787
1	Water Intake Gasket	FP-T23132		
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R48992, R48994, R56787
1	Shaft & Bearing Assembly	FP-JD9398		w/Pump housing marked R48994

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat Cover Gasket	FP-T24932		Water manifold marked T24931, R61178

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
1	Water Manifold Gasket	FP-T23002		

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+ Superseded Part Number

Combine **6329G Eng.** *Cotton Picker* **6329G Eng.** *Power Unit* **JD329G, 6329G Engs.** **77**
5.4L 329 OHV L6, 4.0156" Bore **(cont.)**

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Block to End Plate Front Gskt	**FP-R131794**		Combine Model 6600; Cotton Picker Models 499 & 699

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Washer	**FP-R105714**		Oil cooler; From Ser. No. 4,193 to Ser. No. 7,500
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; From Ser. No. 248,001; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3003**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300310**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300320**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300330**	*30*	w/Flanged thrust brg.

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil pump inlet; w/Pump housing marked R54615; From Ser. No. 243,645
1	O-Ring	**FP-R74354**		Oil pump outlet tube; w/Pump housing marked R54615, T20078

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/Sealing Rings	**FP-T32343WS**	*STD*	
6	Sealing Ring	**FP-SLR2515**		Top sleeve seal; Model 6600 From Ser. No. 4,193 to Ser. No. 157,490; Rectangle

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	**FP-T23471**		1.1896" ID, 1.313" OD, 1.570" O.A.L.
6	Pin Bushing	**FP-R55647**		1.3765" ID, 1.500" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	**FP-RE27348**	*STD*	
6	Rod Pair	**FP-RE27349**	*10*	
6	Rod Pair	**FP-RE27358**	*20*	
6	Rod Pair	**FP-RE27364**	*30*	

Combine **6329D Eng.** *Cotton Picker* **6329D Eng.** *Grader* **6329D Eng.** *Loader* **6329D Eng.** **78**
Power Unit **JD329D, 6329D Engs.** *Wheel Tractor* **6329D Eng.** *Skidder* **6329D Eng.**
5.4L 329 OHV Diesel L6, 4.0156" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R75728**		Combine Model 6600; From Ser. No. 4,193 to Ser. No. 157,490
1	Valve Cover Gasket	**FP-T20467**		To Ser. No. 608,510
1	Head Gasket	**FP-R114157**		From Ser. No. 608,511
1	Head Set	**FP-RE38852**		From Ser. No. 608,511

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-R98062**	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
6	Intake	**FP-R79623**	*STD*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Intake	**FP-R79628**	*3*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
6	Intake	**FP-R79629**	*15*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
6	Intake	**FP-R79630**	*30*	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
6	Exhaust	**FP-R79624**	*STD*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Exhaust	**FP-R79625**	*3*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
6	Exhaust	**FP-R79626**	*15*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
6	Exhaust	**FP-R79627**	*30*	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.

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78 (cont.) *Combine* **6329D Eng.** *Cotton Picker* **6329D Eng.** *Grader* **6329D Eng.** *Loader* **6329D Eng.** *Power Unit* **JD329D, 6329D Engs.** *Wheel Tractor* **6329D Eng.** *Skidder* **6329D Eng.**
5.4L 329 OHV Diesel L6, 4.0156" Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE (cont.)	PART NO.	SIZE	DESCRIPTION
6	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
24	Keeper	FP-41339		1 groove; Square cut key groove
24	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R51734	STD	
6	Int.	FP-R73064	STD	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE11410		Exh. & Int.
1	Bushing	FP-T26321		Lower
1	Bushing	FP-T20034		Upper
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover code 1103; Oil filler neck codes 1201, 1202, 1203

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	FP-R87627		Exh.; From Ser. No. 724,327; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube code 2901 R.H.; Codes 2902, 2903 L.H.

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3001, 3003

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; w/24 Volt alternator conversion
1	Ball Brg.	FP-JD9449		Front; Delco-Remy Nos. 1100490, 1102932, 1105174; Code 3103; 72 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. A12NJD604; Code 3102; 55 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola Nos. TA12NJD400, 8TA2009ES; 30 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola No. 70D42179T02; 24 Volt alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola Nos. 8MA2X01, 8MR2001; 55 amp alternator; 65 amp alternator; 72 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-R90658		
2	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
12	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
6	Fuel Injector Nozzle	FP-AR89564		
6	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1602, 1603; 9.270MM X 13.600MM X 5.080MM
12	Washer	FP-T20055		Pump codes 1602, 1603
6	Fuel Injector Nut	FP-R79604		w/Injector marked 22202
12	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1602, 1603
6	Washer Type Seal	FP-R48000		Lower; w/Nozzle codes 1602, 1603
6	Washer Type Seal	FP-R48000		Lower; w/Nozzle marked 18742, 19762, 20500, 20631, 22042, 22202
6	Washer Type Seal	FP-R60746		Upper; Nozzle codes 1602, 1603; w/Nozzle marked 20631, 22042, 22202; From Ser. No. 608,908

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Transfer pump
1	Fuel Transfer Pump Gasket	FP-R97350		

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Combine **6329D Eng.** *Cotton Picker* **6329D Eng.** *Grader* **6329D Eng.** *Loader* **6329D Eng.** *Power Unit* **JD329D, 6329D Engs.** *Wheel Tractor* **6329D Eng.** *Skidder* **6329D Eng.** **78** **(cont.)**

5.4L 329 OHV Diesel L6, 4.0156" Bore

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R94419		w/Pump housing marked R48992
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	FP-R40979		Pump code 2004; w/Pump housing marked R48994, R56787
1	Water Pump Repair/Rebuild Kit	FP-939840979		w/Pump housing marked R29701, R48994
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	FP-T25485		w/Pump housing marked R48994, R56787
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked R48994
1	Water Intake Gasket	FP-T23132		
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R48992, R48994, R56787
1	Shaft & Bearing Assembly	FP-JD9398		w/Pump housing marked R48994

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-AR70601		Thermostat code 2204; Thermostat cover code 2102; Housing marked T24931; To Ser. No. 366,210; 180 Deg.
1	Thermostat	FP-AR77411		Thermostat code 2204; Thermostat cover code 2102; Housing marked T24931; To Ser. No. 366,210; 195 Deg.
1	Thermostat Gasket	FP-T20219		
1	Thermostat Cover Gasket	FP-T20215		Cover to housing
1	Thermostat Cover Gasket	FP-T24932		Water manifold marked T24931, R61178
1	Therm. Hsg. - Water Mfld. Gsk	FP-R54641		Thermostat housing to cyl. head; From Ser. No. 277,648

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
3	Water Manifold Gasket	FP-T23002		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		
1	Oil Pan Gasket	FP-R97344		
1	Oil Pan Gasket	FP-R97345		From Ser. No. 100,001; Manufactured after 1983
1	Oil Pan Gasket	FP-R97345		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	Oil Pan Gasket Set	FP-PG302PS		From Ser. No. 100,001; Manufactured after 1983
1	Oil Pan Gasket Set	FP-PG302PS		From Ser. No. 248,001 to Ser. No. 621,172; Manufactured 1974-83
1	Block to End Plate Front Gskt	FP-R131794		

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG329S		
1	Complete Overhaul Gasket Set	FP-RE38859		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE38859WS		Incl. crankshaft seals

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R105714		From Ser. No. 3,701 to Ser. No. 157,490
1	Washer	FP-R105714		From Ser. No. 6,501 to Ser. No. 152,270
1	Rect. or Square Seal	FP-R70956		Cooler housing; Oil cooler codes 5901, 5902; From Ser. No. 248,001; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-AT22562		
1	Oil Seal Kit	FP-SK67942		Incl. front & rear seals; Crankshaft marked R108579, R108679, T23264, T23266, T23267

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		
1	O-Ring	FP-H35244		Crankshaft pulley; Pulley codes 1302, 1308, 4101; Crankshaft marked R108679, RE60489, T23266

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		Crankshaft codes 1302, 1308

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3006	*STD*	w/Flanged thrust brg.
1	Main Set	FP-MBK300610	*10*	w/Flanged thrust brg.
1	Main Set	FP-MBK300620	*20*	w/Flanged thrust brg.
1	Main Set	FP-MBK300630	*30*	w/Flanged thrust brg.
6	Plain Main Brg.	FP-RE27352	*STD*	
6	Plain Main Brg.	FP-RE27353	*10*	
6	Plain Main Brg.	FP-RE27360	*20*	
6	Plain Main Brg.	FP-RE27368	*30*	
1	Flanged Main Brg.	FP-RE521350	*STD*	
1	Flanged Main Brg.	FP-RE526754	*10*	
1	Flanged Main Brg.	FP-RE527235	*20*	

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78 (cont.) *Combine* **6329D Eng.** *Cotton Picker* **6329D Eng.** *Grader* **6329D Eng.** *Loader* **6329D Eng.** *Power Unit* **JD329D, 6329D Engs.** *Wheel Tractor* **6329D Eng.** *Skidder* **6329D Eng.**
5.4L 329 OHV Diesel L6, 4.0156" Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	MAIN BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Flanged Main Brg.	FP-RE527236	*30*	
4	Thrust Washer	FP-R78598	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	FP-RE55343		w/Pump housing marked R54615
1	O-Ring	FP-R61871		Oil pump inlet; From Ser. No. 243,645; w/Pump housing marked R54615
1	O-Ring	FP-R74354		Oil pump outlet tube; w/Pump housing marked R54615, T20078
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck codes 1201, 1202, 1203

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R116463	*STD*	w/o Piston spray cooling; O-rings in block; From Ser. No. 100,001
6	Liner w/o Sealing Ring	FP-R116463	*STD*	w/o Piston spray cooling; O-rings in block; From Ser. No. 290,000 to Ser. No. 621,172
6	Liner w/o Sealing Ring	FP-T32343	*STD*	From Ser. No. 277,550
6	Liner w/Sealing Rings	FP-T32343WS	*STD*	From Ser. No. 277,550
6	Liner w/Sealing Rings	FP-AR51903	*STD*	To Ser. No. 277,549; Incl. 2-FPR4863R (Rect., upper step & lower groove on sleeve) & 1-FPT32341 (Top groove on sleeve) sealing rings.
6	Cylinder Kit Complete	FP-AR78041	*STD*	w/Con. Rod marked R51727; From Ser. No. 277,550; O-Rings in block; Pin dia, 1.38"
6	Cylinder Kit Complete	FP-AR71593	*STD*	w/Con. Rod marked T20007, R81410; To Ser. No. 277,549; O-rings in block; Pin dia. 1.19"
6	Cylinder Kit Complete	FP-CK83108636	*STD*	w/Con. Rod marked T20007, R81410; To Ser. No. 277,549; O-rings on liner
6	Cyl. Liner Sealing Ring Kit	FP-AR71618		
6	Sealing Ring, Liner	FP-R48637		Rectangle; Top & Bottom
6	Sealing Ring, Liner	FP-T32341		Round
6	Sealing Ring	FP-SLR2515		Rectangle
6	Sealing Ring	FP-SLR2388		Round

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-AR77762	*STD*	From Ser. No. 277,550
6	Piston Body w/o Pin	FP-AR78310	*STD*	To Ser. No. 277,549
6	Piston Kit w/Pin & Retainers	FP-AR77762WP	*STD*	From Ser. No. 277,550
6	Piston Kit w/Pin & Retainers	FP-AR78310WP	*STD*	To Ser. No. 277,549
6	Pin	FP-R125754		From Ser. No. 277,550; 1.38" pin dia.
6	Pin	FP-T26149		To Ser. No. 277,549
12	Piston Pin Retainer	FP-M41029		From Ser. No. 277,550; For 1.38" pin dia.
12	Piston Pin Retainer	FP-R51112		To Ser. No. 277,549
6	Pin Bushing	FP-R55647		w/Con. Rod marked R51727, R80034; 1.3765" ID, 1.500" OD, 1.570" O.A.L.
6	Pin Bushing	FP-T23471		w/Con. Rod marked R81410, T20007; 1.1896" ID, 1.313" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R80033		w/Con. Rod marked R80032, R80034, R81410, R105011, R113612; Torque-To-Yield bolt; Replacement recommended
12	Con. Rod Bolt	FP-R74194		w/Con. Rod marked T20007, R51727, R58979; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	FP-RE27348	*STD*	
6	Rod Pair	FP-RE27349	*10*	
6	Rod Pair	FP-RE27358	*20*	
6	Rod Pair	FP-RE27364	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-AR55759	*STD*	1-1/8, 1-3/32, 1-.1965 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-329LIFK		w/Con. Rod marked R51727; Pin dia. 1.38"; From Ser. No. 277,550; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	FP-329EORLIFK		w/Con. Rod marked T20007; O-rings on liner; To Ser. No. 277,549; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	FP-329MIFK		w/Con. Rod marked T20007; Pin dia. 1.19"; To Ser. No. 277,549; O-rings in block; Incl. Torque-To-Yield con. rod bolts

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Combine **6329D Eng.** *Cotton Picker* **6329D Eng.** *Grader* **6329D Eng.** *Loader* **6329D Eng.** *Power Unit* **JD329D, 6329D Engs.** *Wheel Tractor* **6329D Eng.** *Skidder* **6329D Eng.** **78 (cont.)**
5.4L 329 OHV Diesel L6, 4.0156" Bore

KITS (cont.)

QTY	OVERHAUL KIT (cont.)	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	FP-329LOHK		w/Con. Rod marked R51727; Pin dia. 1.38"; From Ser. No. 277,550; Incl. front & rear seals; Crankshaft marked R108579, R108679, T23264, T23266, T23267; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-329EORLOHK		w/Con. Rod marked T20007; O-rings on liner; To Ser. No. 277,549; Incl. front & rear seals; Crankshaft marked R108579, R108679, T23264, T23266, T23267; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-329MOHK		w/Con. Rod marked T20007; Pin dia. 1.19"; To Ser. No. 277,549; O-rings in block; Incl. front & rear seals; Crankshaft marked R108579, R108679, T23264, T23266, T23267; Incl. Torque-To-Yield con. rod bolts

Combine **6329LP Eng. (LPG).** *Cotton Picker* **6329LP Eng. (LPG).** *Power Unit* **6329LP Eng. (LPG).** **79**
5.4L 329 OHV LPG L6, 4.0156" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R75728		Combine Model 6600; From Ser. No. 4,193 to Ser. No. 157,490
1	Head Set	FP-RE38852		

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	FP-T20328		

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Motorola Nos. TA12NJD400, 8TA2009ES; 30 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola Nos. 8MA2X01, 8MR2001
2	Ball Brg.	FP-JD9449		Front & Rear; 55 amp alternator; 65 amp alternator; 72 amp alternator

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R40979		w/Pump housing marked R48994, R56787
1	Water Pump Housing Gasket	FP-T25485		w/Pump housing marked R48994, R56787
1	Water Intake Gasket	FP-T23132		
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R48992, R48994, R56787

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat Cover Gasket	FP-T24932		Water manifold marked T24931, R61178

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
1	Water Manifold Gasket	FP-T23002		

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-SK67942		Incl. front & rear seals

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R74354		Oil pump outlet tube seal; w/Pump housing marked R54615, T20078

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cylinder Kit Complete	FP-AR71593	*STD*	Top sleeve seal; Cotton Picker Models 499 & 699; Pin dia. 1.19"
6	Sealing Ring	FP-SLR2515		Top sleeve seal; Cotton Picker Models 499 & 699; Rectangle

Grader **6329T Eng.** *Loader* **6329T Eng.** *Wheel Tractor* **6329T Eng.** *Skidder* **6329T Eng.** *Backhoe* **6329T Eng.** **80**
5.4L 329 OHV Turbo-Diesel L6, 4.0156" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Set	FP-RE38852		

FUEL SYSTEM & PARTS

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Mounting Gasket	FP-R89879		

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80 (cont.) *Grader* **6329T Eng.** *Loader* **6329T Eng.** *Wheel Tractor* **6329T Eng.** *Skidder* **6329T Eng.** *Backhoe* **6329T Eng.**

5.4L 329 OHV Turbo-Diesel L6, 4.0156" Bore

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	**FP-PG329S**		

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3006**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300610**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300620**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300630**	*30*	w/Flanged thrust brg.

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	**FP-T23471**		1.1896" ID, 1.313" OD, 1.570" O.A.L.
6	Pin Bushing	**FP-R55647**		1.3765" ID, 1.500" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	**FP-RE27348**	*STD*	
6	Rod Pair	**FP-RE27349**	*10*	
6	Rod Pair	**FP-RE27358**	*20*	
6	Rod Pair	**FP-RE27364**	*30*	

81 *Combine* **6341G Eng.** *Power Unit* **6341G Eng.** *Wheel Tractor* **6341G Eng.** *Loader Tractor* **6341G Eng.**

5.6L 340 OHV L6, 4.25" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-V1635**		1.6880" Head Dia., .3720" Stem Dia., 5.7000" O.A.L.
6	Exhaust	**FP-V1634**		1.5000" Head Dia., .3720" Stem Dia., 5.7310" O.A.L.
24	Keeper	**FP-B367R**		2 groove
24	Keeper	**VK-66R**		2 groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Int.	**FP-R78702**	*STD*	1.7550" OD, 1.5000" ID, .2160" Depth

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	**FP-VG606**		.3750" ID, 2.9400" O.A.L.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	**ST-2004**		Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal Bulk	**ST-2004BC**		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-4R46903**	*STD*	
4	Cam Brg.	**FP-R46903**	*STD*	

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE22764**		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3007**	*STD*	
1	Main Set	**FP-MBK300710**	*10*	
1	Main Set	**FP-MBK300720**	*20*	
1	Main Set	**FP-MBK300730**	*30*	

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Combine **6341G Eng.** *Power Unit* **6341G Eng.** *Wheel Tractor* **6341G Eng.** *Loader Tractor* **6341G Eng.** **(cont.)** **81**

5.6L 340 OHV L6, 4.25" Bore

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Sleeve Assy.	**FP-SL2279**		Exc. Models 4000, 4020 w/Block marked R40940, R49550
6	Sealing Ring, Liner	**FP-112847**		Exc. Models 4000, 4020 w/Block marked R40940, R49550

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Cast Piston	**FP-2279P**	*STD*	Cast; 3-3/32", 1-1/4" Ring Groove, 2.6525" CD, 1.2500" Pin Dia., Recessed Head Wedge Shape .470" deep x 3.500" wide - 7.5:1 C.R.; Repl. O.E. Nos. R33372, R34617
6	Pin Bushing	**FP-R30939**		

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	**FP-AR45723**	*STD*	
6	Rod Pair	**FP-AR46396**	*10*	
6	Rod Pair	**FP-AR46397**	*20*	
6	Rod Pair	**FP-AR46398**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-W5589KX**	*STD*	Check piston grooving before supplying ring set
3	Premium Set	**FP-5589KX**	*STD*	Check piston grooving before supplying ring set; 3-3/32, 1-1/4 (2 cyl. set)

Wheel Tractor **6341LP Eng. (LPG).** *Loader Tractor* **6341LP Eng. (LPG).** **82**

5.6L 340 OHV LPG L6, 4.25" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-V1635**		1.6880" Head Dia., .3720" Stem Dia., 5.7000" O.A.L.
6	Exhaust	**FP-V1634**		1.5000" Head Dia., .3720" Stem Dia., 5.7310" O.A.L.
24	Keeper	**FP-B367R**		2 groove
24	Keeper	**VK-66R**		2 groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Int.	**FP-R78702**	*STD*	1.7550" OD, 1.5000" ID, .2160" Depth

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	**FP-VG606**		.3750" ID, 2.9400" O.A.L.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	**ST-2004**		Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal Bulk	**ST-2004BC**		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-4R46903**	*STD*	
4	Cam Brg.	**FP-R46903**	*STD*	

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE22764**		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3007**	*STD*	
1	Main Set	**FP-MBK300710**	*10*	
1	Main Set	**FP-MBK300720**	*20*	
1	Main Set	**FP-MBK300730**	*30*	

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Sleeve Assy.	**FP-SL2454**		Exc. Models 4000, 4020 w/Block marked R40940, R49550
6	Sealing Ring, Liner	**FP-112847**		Exc. Models 4000, 4020 w/Block marked R40940, R49550

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Cast Piston	**FP-2454P**	*STD*	Cast; 3-3/32", 1-1/4" Ring Groove, 2.655" CD, 1.2500" Pin Dia., Flat Head; Repl. O.E. Nos. R33374, R40778
6	Pin Bushing	**FP-3129YA20**		1.252" ID, 1.3785" OD, 1.510" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	**FP-AR45723**	*STD*	

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82 (cont.) *Wheel Tractor* 6341LP Eng. (LPG). *Loader Tractor* 6341LP Eng. (LPG).
5.6L 340 OHV LPG L6, 4.25" Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS. (cont.)	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-AR46396	*10*	
6	Rod Pair	FP-AR46397	*20*	
6	Rod Pair	FP-AR46398	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-W5589KX	*STD*	
3	Premium Set	FP-5589KX	*STD*	3-3/32, 1-1/4 (2 cyl. set)

83 *Grader* 6059D Eng. *Loader* 6059D Eng.
5.9L 358.4 (5876cc) OHV Diesel L6 (Litre Engine), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R75728		Rocker cover codes 1102, 1103, 1104, 1105; RePower Engs.; Valve cover codes 1110, 1112
1	Head Gasket	FP-R114157		Cyl. head code 5101; RePower Engs.
1	Head Set	FP-RE38852		Cyl. head code 5101; RePower Engs.

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R98062	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
6	Intake	FP-R97490	*15*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
6	Exhaust	FP-R90692	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
6	Exhaust	FP-R97492	*15*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
24	Keeper	FP-R91889		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R85687	*STD*	
6	Int.	FP-R98335		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
6	Int.	FP-R98063	*STD*	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE60005		Exh. & Int.
1	Oil Filler Cap Gasket	FP-R80135		Oil filler neck code 1204; L.H. Auxiliary drive
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover codes 1103, 1104; Oil filler neck codes 1202, 1203

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-RE31617		Exh. & Int.; From Ser. No. 300,000; Positive type
12	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube codes 2901, 2902, 2905, 2909, 2912, 2999
1	O-Ring	FP-R56463		Rocker cover breather tube; RePower Engs.; Breather tube code 2909

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3002, 3013, 3016 L.H.; Starting motor codes 3007, 3015, 3016 R.H.

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Codes 3111, 3114, 3115; 12 Volt, 78 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Codes 3101, 3109; 12 Volt, 65 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Codes 3117, 3119, 3140; 24 Volt, 45 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-R90658		
2	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover
1	Timing Gear Cover Gasket	FP-R97454		Front cover

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FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	**FP-R125066**		Gear cover
6	Fuel Injector Nozzle	**FP-RE36935**		w/Injector marked 28480
6	Fuel Injector Seal	**FP-R79605**		Fuel line connection; Nozzle code 1695; Nozzle marked 28480; 9.270MM X 13.600MM X 5.080MM
6	Fuel Injector Seal	**FP-R79605**		RePower Engs.; Fuel line connection; Nozzle code 1695; Nozzle marked 28480; 9.270MM X 13.600MM X 5.080MM
6	Fuel Injector Nut	**FP-R79604**		w/Injector marked 28480
2	Clamp	**FP-R34766**		Pump codes 3702, 3710
12	Washer Type Seal	**FP-R51936**		Leak-off & return line seals; Nozzle codes 1602, 1603, 1653
12	Washer Type Seal	**FP-R51936**		Nozzle code 1695; w/Nozzle marked 28480
12	Washer Type Seal	**FP-R51936**		RePower Engs.; Nozzle code 1695; w/Nozzle marked 28480
6	Washer Type Seal	**FP-R48000**		Lower; w/Nozzle marked 28480
6	Washer Type Seal	**FP-R60746**		Upper; w/Nozzle marked 28480

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	**FP-R47191**		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	**FP-R56812**		w/Pump housing marked R90783
1	Water Pump Impeller	**FP-R94419**		Pump code 2002; w/Pump housing marked R100871, R111028, RE48161
1	Water Pump Repair/Rebuild Kit	**FP-864340979**		w/Pump housing marked R51661, R73606, R73724, R79171
1	Water Pump Repair/Rebuild Kit	**FP-925740979**		w/Pump housing marked R56787, R62902
1	Water Pump Repair/Rebuild Kit	**FP-RE62661**		w/Pump housing marked R66420, R68733
1	Water Pump Repair/Rebuild Kit	**FP-RE62658**		w/Pump housing marked R73604
1	Water Pump Repair/Rebuild Kit	**FP-RE70143**		From Ser. No. 100,000 to Ser. No. 499,999; w/Cast iron impeller
1	Water Pump Housing Gasket	**FP-R97455**		w/Pump housing marked R73604; Back plate to pump
1	Oil Seal Kit	**FP-AR101549**		Water Pump; w/Pump housing marked R90783, R100871, R111028
1	Water Pump Mounting Gasket	**FP-T20243**		w/Pump housing marked R73604, R90783, R100871; Pump to block
1	Shaft & Bearing Assembly	**FP-JD9257**		w/Pump housing marked R100871, R111028
1	Shaft & Bearing Assembly	**FP-JD8643**		w/Pump housing marked R90783

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	**FP-AR48675**		Housing codes 3901, 3903; Thermostat cover code 2204 Vertical, 2108 Horizontal; 180 Deg.
2	Thermostat	**FP-AR48675**		RePower Engs.; Thermostat codes 2204, 2209; Housing codes 3901, 3903; 180 Deg.
1	Thermostat Cover Gasket	**FP-R54638**		Thermostat cover codes 2102, 2204, 2108, 2111; Thermostat housing codes 3901, 3903, 3904; w/Two thermostats
1	Therm. Hsg. - Water Mfld. Gsk	**FP-R54641**		Thermostat housing to cyl. head
2	O-Ring	**FP-R56461**		Thermostat housing tube seals; Housing code 3901

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	**FP-R97351**		
1	Oil Pan Gasket	**FP-R97344**		
1	Oil Pan Gasket Set	**FP-PG303PS**		
1	Oil Pan Gasket Set	**FP-PG302PS**		From Ser. No. 362,801
2	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"
1	Block to End Plate Front Gskt	**FP-R131794**		Front plate codes 3601, 3602; R.H. side gear drive
1	Block to End Plate Front Gskt	**FP-R131794**		RePower Engs.; Front plate codes 3604, 3695

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	**FP-PG359S**		
1	Complete Overhaul Gasket Set	**FP-RE38858**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE38858WS**		Incl. crankshaft seals

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R119874**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	**FP-RE61767**		w/6 plates; Cooler codes 5904, 5906; From Ser. No. 185,224
1	Washer	**FP-R105714**		Oil cooler; Modine Oil Cooler codes 5911, 5915

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-SK67942**		Crankshaft codes 4701, 4703, 4708, 4709; Incl. front & rear seals; Crankshaft marked T23266, R108658, R108679, R126982

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83 *Grader* 6059D Eng. *Loader* 6059D Eng.
(cont.) 5.9L 358.4 (5876cc) OHV Diesel L6 (Litre Engine), 106mm Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	CRANKSHAFT (cont.)	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-SK67942		Crankshaft codes 4701, 4703, 4708, 4709; Incl. front & rear seals; RePower Engs.; Crankshaft marked T23266, R108658, R108679, R126982

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		
1	O-Ring	FP-H35244		Crankshaft pulley; Pulley codes 1303, 1308, 1312, 1338; Crankshaft, Bearing codes 4701, 4703, 4708, 4709; Crankshaft marked R108658, R108679

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3006	STD	w/Flanged thrust brg.
1	Main Set	FP-MBK300610	10	w/Flanged thrust brg.
1	Main Set	FP-MBK300620	20	w/Flanged thrust brg.
1	Main Set	FP-MBK300630	30	w/Flanged thrust brg.
6	Plain Main Brg.	FP-RE27352	STD	w/Flangeless thrust brg.
6	Plain Main Brg.	FP-RE27353	10	w/Flangeless thrust brg.
6	Plain Main Brg.	FP-RE27360	20	w/Flangeless thrust brg.
6	Plain Main Brg.	FP-RE27368	30	w/Flangeless thrust brg.
1	Flanged Main Brg.	FP-RE521350	STD	
1	Flanged Main Brg.	FP-RE526754	10	
1	Flanged Main Brg.	FP-RE527235	20	
1	Flanged Main Brg.	FP-RE527236	30	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	FP-RE55343		Pump codes 5001, 5005; w/Pump housing marked R54615
1	O-Ring	FP-R61871		Oil pump inlet; H/D Pump codes 5003, 5007, 5012
1	O-Ring	FP-R61871		Oil pump inlet; Pump codes 5001, 5002, 5004, 5007, 5010
1	O-Ring	FP-R61871		Oil pump inlet; RePower Engs. DD15691
1	O-Ring	FP-R74354		Oil pump outlet tube; RePower Engs.; Pump codes 5001, 5002, 5004, 5007, 5010; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck codes 1201, 1203, 1299

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R116281		
6	Liner w/Sealing Rings	FP-RE500023		
6	Cylinder Kit Complete	FP-RE30250	STD	w/Con. Rod marked R51727, R80034
6	Cyl. Liner Sealing Ring Kit	FP-AR65507		
6	Sealing Ring, Liner	FP-R48767		Rectangle; Top
6	Sealing Ring, Liner	FP-R26121		Round; Middle
6	Sealing Ring	FP-SLR2520		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-RE19282		
6	Piston Kit w/Pin & Retainers	FP-RE19282WP		
6	Pin	FP-R125754		1.38" pin dia.
12	Piston Pin Retainer	FP-M41029		For 1.38" pin dia.
6	Pin Bushing	FP-R55647		w/Con. Rod marked R51727, R80034; 1.3765" ID, 1.500" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R80033		w/Con. Rod marked R51727, R80032, R80034, R113612; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	FP-RE27348	STD	
6	Rod Pair	FP-RE27349	10	
6	Rod Pair	FP-RE27358	20	
6	Rod Pair	FP-RE27364	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE507852	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	FP-RE66820	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-359DIFK		w/Con. Rod marked R51727, R80034; w/Flangeless thrust brg.; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-359DOHK		w/Con. Rod marked R51727, R80034; w/Flangeless thrust brg.; Incl. front & rear seals; Incl. Torque-To-Yield con. rod bolts

Grader **6059T Eng.** *Loader* **6059T Eng.** *Skidder* **6059T Eng.** **84**
5.9L 358.4 (5876cc) OHV Turbo-Diesel L6 (Litre Engine), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R75728		Rocker cover codes 1102, 1103, 1104, 1105, 1112
1	Head Gasket	FP-R114157		Cyl. head code 5101
1	Head Set	FP-RE38852		Cyl. head code 5101

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R98062	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
6	Intake	FP-R97490	*15*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
6	Exhaust	FP-R90692	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
6	Exhaust	FP-R97492	*15*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
24	Keeper	FP-R91889		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R85687	*STD*	
6	Int.	FP-R98335		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
6	Int.	FP-R98063	*STD*	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE60005		Exh. & Int.
1	Oil Filler Cap Gasket	FP-R80135		Oil filler neck code 1204; L.H. Auxiliary drive
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover codes 1103, 1104; Oil filler neck codes 1202, 1203

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-RE31617		Exh. & Int.; From Ser. No. 300,000; Positive type
12	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube codes 2902, 2905, 2909, 2912, 2999

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3002, 3013, 3016 L.H.; Starting motor codes 3007, 3015, 3016 R.H.

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-R90658		
2	Air Intake Gasket	FP-R81275		

QTY	AIR INTAKE	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56905		Air intake system code 1709

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-R97454		Front cover

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
6	Fuel Injector Nozzle	FP-RE36939		w/Injector marked 28484
6	Fuel Injector Seal	FP-R79605		Fuel line connection; RePower Engs.; Nozzle code 1695; Nozzle marked 28484; 9.270MM X 13.600MM X 5.080MM
6	Fuel Injector Nut	FP-R79604		w/Injector marked 28484
2	Clamp	FP-R34766		Pump codes 3702, 3710
12	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1602, 1603, 1653
12	Washer Type Seal	FP-R51936		RePower Engs.; Nozzle code 1695; w/Nozzle marked 28480
6	Washer Type Seal	FP-R48000		Lower; w/Nozzle marked 28484

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		w/Turbo oil line codes 6501, 6512, 6515
1	Turbocharger Mounting Gasket	FP-R43751		From Ser. No. 100,000 to Ser. No. 499,999; Codes 6506, 6512
1	Turbocharger Mounting Gasket	FP-R89879		RePower Engs.
1	Turbocharger Oil Supply Gskt.	FP-R97348		Turbo codes 6501, 6515

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84 *Grader* 6059T Eng. *Loader* 6059T Eng. *Skidder* 6059T Eng.
(cont.) 5.9L 358.4 (5876cc) OHV Turbo-Diesel L6 (Litre Engine), 106mm Bore

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	FP-R56812		w/Pump housing marked R90783
1	Water Pump Impeller	FP-R94419		Pump code 2002; w/Pump housing marked R100871, R111028, RE48161
1	Water Pump Repair/Rebuild Kit	FP-864340979		w/Pump housing marked R51661, R73606, R73724, R79171
1	Water Pump Repair/Rebuild Kit	FP-925740979		w/Pump housing marked R56787, R62902
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Repair/Rebuild Kit	FP-RE62658		w/Pump housing marked R73604
1	Water Pump Repair/Rebuild Kit	FP-RE70143		From Ser. No. 100,000 to Ser. No. 499,999; w/Cast iron impeller
1	Water Pump Housing Gasket	FP-R97455		w/Pump housing marked R73604, R100871, R111028
1	Water Pump Housing Gasket	FP-R56809		w/Pump housing marked R90783
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked R90783, R100871, R111028
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R73604, R86824, R90783, R100871, R111028
1	Shaft & Bearing Assembly	FP-JD9257		w/Pump housing marked R100871, R111028
1	Shaft & Bearing Assembly	FP-JD8643		w/Pump housing marked R90783

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat codes 2204, 2209; Thermostat cover code 2204 Vertical, 2108 Horizontal; Housing codes 3901, 3903; 180 Deg.
1	Thermostat Cover Gasket	FP-R54638		Thermostat cover codes 2102, 2204, 2108, 2111; Thermostat housing codes 3901, 3903, 3904; w/Two thermostats
1	Therm. Hsg. - Water Mfld. Gsk	FP-R54641		Thermostat housing to cyl. head
2	O-Ring	FP-R56461		Thermostat housing tube seals; Housing codes 3901, 3904

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Line Gasket	FP-R97346		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		
1	Oil Pan Gasket	FP-R97344		Oil pan codes 1905, 1906, 1909, 1917, 1918, 1931, 1935
1	Oil Pan Gasket Set	FP-PG303PS		
1	Oil Pan Gasket Set	FP-PG302PS		From Ser. No. 362,801
2	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"
1	Block to End Plate Front Gskt	FP-R131794		Front plate codes 3601, 3602

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG359S		
1	Complete Overhaul Gasket Set	FP-RE38858		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE38858WS		Incl. crankshaft seals

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	FP-RE61767		w/6 plates; Cooler codes 5904, 5906; From Ser. No. 185,224
1	Washer	FP-R105714		Oil cooler; Modine Oil Cooler codes 5911, 5915
1	Rect. or Square Seal	FP-R70956		Cooler housing; Cooler codes 5904, 5906, 5907; To Ser. No. 185,223; 2.700" X 3.000" X .180"
1	Rect. or Square Seal	FP-R70956		Cooler housing; RePower Engs.; Cooler code 5995; To Ser. No. 185,223; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-SK67942		Crankshaft codes 4701, 4703, 4708, 4709; Incl. front & rear seals; Crankshaft marked T23266, R108658, R108679, R126982
1	Oil Seal Kit	FP-SK67942		Crankshaft codes 4701, 4703, 4708, 4709; Incl. front & rear seals; RePower Engs.; Crankshaft marked T23266, R108658, R108679, R126982

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		
1	O-Ring	FP-H35244		Crankshaft pulley; Pulley codes 1303, 1308, 1312, 1338; Crankshaft, Bearing codes 4701, 4703, 4708, 4709; Crankshaft marked R108658, R108679

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3006	STD	w/Flanged thrust brg.

(continued on next page)

Grader **6059T Eng.** *Loader* **6059T Eng.** *Skidder* **6059T Eng.** **84**
5.9L 358.4 (5876cc) OHV Turbo-Diesel L6 (Litre Engine), 106mm Bore **(cont.)**

CRANKSHAFT/OIL PUMP (cont.)

QTY	MAIN BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK300610**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300620**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300630**	*30*	w/Flanged thrust brg.
6	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
6	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
6	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
6	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	**FP-RE55343**		Pump code 5001; w/Pump housing marked R54615
1	O-Ring	**FP-R61871**		Oil pump inlet; H/D Pump codes 5003, 5007, 5012
1	O-Ring	**FP-R61871**		Oil pump inlet; Pump codes 5001, 5002, 5004, 5007, 5010
1	O-Ring	**FP-R61871**		Oil pump inlet; RePower Engs. DD15691
1	O-Ring	**FP-R74354**		Oil pump outlet tube; Pump code 5010; w/Pump housing marked R54615
1	O-Ring	**FP-R74354**		Oil pump outlet tube; Pump codes 5001, 5002,5004, 5007; RePower Engs.; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1201, 1203, 1299

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R116281**		
6	Liner w/Sealing Rings	**FP-RE500023**		
6	Cylinder Kit Complete	**FP-RE33115**		w/Con. Rod marked R80032, R113612
6	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		
6	Sealing Ring, Liner	**FP-R48767**		Rectangle; Top
6	Sealing Ring, Liner	**FP-R26121**		Round; Middle
6	Sealing Ring	**FP-SLR2520**		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-RE48368**		
6	Piston Kit w/Pin & Retainers	**FP-RE48368WP**		
6	Pin	**FP-R124230**		1.62" pin dia.
12	Piston Pin Retainer	**FP-R54114**		For 1.62" pin dia.
6	Pin Bushing	**FP-R57451**		w/Con. Rod marked R56187, R58979, R80032, R113612; Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R80033**		w/Con. Rod marked R80032, R80034, R81410, R105011, R113612; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	**FP-RE27348**	*STD*	
6	Rod Pair	**FP-RE27349**	*10*	
6	Rod Pair	**FP-RE27358**	*20*	
6	Rod Pair	**FP-RE27364**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-RE507852**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	**FP-RE66820**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-359TIFK**		w/Con. Rod marked R80032, R113612; w/Flangeless thrust brg.; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-359TOHK**		w/Con. Rod marked R80032, R113612; w/Flangeless thrust brg.; Pin dia. 1.62"; Incl. front & rear seals; Crankshaft marked R108658, R108679, R126982, T23266; Incl. Torque-To-Yield con. rod bolts

Combine **6359D Eng.** *Cotton Picker* **6359D Eng.** *Grader* **6359D Eng.** *Wheel Tractor* **6359D Eng.** **85**
5.9L 359 OHV Diesel L6, 4.1875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Set	**FP-RE38852**		

(continued on next page)

85 (cont.) *Combine* 6359D Eng. *Cotton Picker* 6359D Eng. *Grader* 6359D Eng. *Wheel Tractor* 6359D Eng.

5.9L 359 OHV Diesel L6, 4.1875" Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R79623	STD	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Intake	FP-R79628	3	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
6	Intake	FP-R79629	15	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
6	Intake	FP-R79630	30	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
6	Exhaust	FP-R79624	STD	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Exhaust	FP-R79625	3	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
6	Exhaust	FP-R79626	15	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
6	Exhaust	FP-R79627	30	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
24	Keeper	FP-41339		1 groove; Square cut key groove
24	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R51734	STD	
6	Int.	FP-R73064	STD	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE11410		Exh. & Int.
1	Bushing	FP-T26321		Lower
1	Bushing	FP-T20034		Upper
1	Oil Filler Cap Gasket	FP-R80135		Oil filler neck code 1201; From Ser. No. 607,181; L.H. Auxiliary drive
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover code 1103; Oil filler neck codes 1201, 1202, 1203, 1206

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube code 2901 R.H.; Codes 2902, 2903 L.H.; Codes 2905, 2909, 2915

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3002, 3011, 3013, 3016, 3017, 3018

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Delco-Remy Nos. 1100490, 1103128, 1105175; Code 3103; 12 Volt, 72 amp alternator
1	Ball Brg.	FP-JD9449		Front; Delco-Remy Nos. 1100491, 1100580; Code 3102; 12 Volt, 55 amp alternator
1	Ball Brg.	FP-JD9449		Front; Delco-Remy Nos. 1102926, 1103124, 1105422; Code 3105; 12 Volt, 63 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola Code 3104; 12 Volt, 30 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Code 3101; 65 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Code 3109; w/Auxiliary drive gear; 65 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Code 3117; 24 Volt, 45 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola replacement; 12 Volt, 65 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola No. 70D42179T02; 24 Volt, 45 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-R90658		
2	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover

(continued on next page)

Combine **6359D Eng.** *Cotton Picker* **6359D Eng.** *Grader* **6359D Eng.** *Wheel Tractor* **6359D Eng.** **(cont.)** **85**

5.9L 359 OHV Diesel L6, 4.1875" Bore

CAMSHAFT GROUP (cont.)

QTY	TIMING COVER (cont.)	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
12	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
6	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle marked 27333; 9.270MM X 13.600MM X 5.080MM
12	Washer	FP-T20055		Pump codes 1602, 1603
6	Fuel Injector Nut	FP-R79604		w/Injector marked 27333; From Ser. No. 410,664
12	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1602, 1603, 1619, 1624; w/Nozzle marked 27333
6	Washer Type Seal	FP-R48000		Lower; w/Nozzle marked 27333
6	Washer Type Seal	FP-R60746		Upper; w/Nozzle marked 27333

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Transfer pump
1	Fuel Transfer Pump Gasket	FP-R97350		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	FP-R56812		w/Pump housing marked R90783
1	Water Pump Repair/Rebuild Kit	FP-864340979		w/Pump housing marked R51661, R73606, R73724, R79171
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	FP-R56809		w/Pump housing marked R90783
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked R90783
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R56060, R56813, R70612, R78287, R86824, R90783, R99665
1	Shaft & Bearing Assembly	FP-JD8643		w/Pump housing marked R90783

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2204; Thermostat cover code 2102 Vertical; Housing code 3901; 180 Deg.
1	Thermostat Gasket	FP-T20219		Thermostat housing code 3901
1	Thermostat Cover Gasket	FP-R54638		Thermostat cover codes 2102, 2108, 2111; Thermostat housing code 3901; w/Two thermostats
1	Therm. Hsg. - Water Mfld. Gsk	FP-R54641		Thermostat housing to cyl. head
2	O-Ring	FP-R56461		Thermostat housing tube seals; Housing codes 3901, 3904

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		
1	Oil Pan Gasket	FP-R97344		
1	Oil Pan Gasket Set	FP-PG303PS		Oil pump codes 5001, 5002
1	Block to End Plate Front Gskt	FP-R131794		Front plate code 3601

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG359S		
1	Complete Overhaul Gasket Set	FP-RE38858		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE38858WS		Incl. crankshaft seals

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R105714		Oil cooler; Modine Oil Cooler codes 5911, 5915
1	Rect. or Square Seal	FP-R70956		Cooler housing; Cooler codes 5904, 5906, 5911; Water pump codes 2004, 2008, 2023; To Ser. No. 198,385; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-AT22562		
1	Oil Seal Kit	FP-SK67942		Incl. front & rear seals; Crankshaft code 4701; Crankshaft marked R108679

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		
1	O-Ring	FP-H35244		Crankshaft pulley; Crankshaft, Bearing code 4701; Crankshaft marked R108679, R60489, T23266

(continued on next page)

85 (cont.) *Combine* 6359D Eng. *Cotton Picker* 6359D Eng. *Grader* 6359D Eng. *Wheel Tractor* 6359D Eng.

5.9L 359 OHV Diesel L6, 4.1875" Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		Crankshaft, Bearing code 4701; Flywheel housing codes 1403, 1404, 1405, 1410, 1411, 1420, 1422, 1425

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3006	STD	w/Flanged thrust brg.
1	Main Set	FP-MBK300610	10	w/Flanged thrust brg.
1	Main Set	FP-MBK300620	20	w/Flanged thrust brg.
1	Main Set	FP-MBK300630	30	w/Flanged thrust brg.
6	Plain Main Brg.	FP-RE27352	STD	
6	Plain Main Brg.	FP-RE27353	10	
6	Plain Main Brg.	FP-RE27360	20	
6	Plain Main Brg.	FP-RE27368	30	
1	Flanged Main Brg.	FP-RE521350	STD	
1	Flanged Main Brg.	FP-RE526754	10	
1	Flanged Main Brg.	FP-RE527235	20	
1	Flanged Main Brg.	FP-RE527236	30	
4	Thrust Washer	FP-R78598	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	FP-RE55343		Pump code 5001; w/Pump housing marked R54615
1	O-Ring	FP-R61871		Oil pump inlet; Pump codes 5001, 5003, 5007; w/Pump housing marked R54615
1	O-Ring	FP-R74354		Oil pump outlet tube; Pump codes 5001, 5002; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck codes 1200, 1201, 1202, 1203, 1206, 1298, 1299
1	Oil Pump Seal Ring	FP-R79563		Oil pump outlet adapter; Pump code 5001; w/Pump marked R54629

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R116281		
6	Liner w/Sealing Rings	FP-RE500023		
6	Cylinder Kit Complete	FP-RE30250	STD	w/Con. Rod marked R51727, R80034
6	Cyl. Liner Sealing Ring Kit	FP-AR65507		
6	Sealing Ring, Liner	FP-R48767		Rectangle; Top
6	Sealing Ring, Liner	FP-R26121		Round; Middle
6	Sealing Ring	FP-SLR2520		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-RE19282		
6	Piston Kit w/Pin & Retainers	FP-RE19282WP		
6	Pin	FP-R125754		1.38" pin dia.
12	Piston Pin Retainer	FP-M41029		For 1.38" pin dia.
6	Pin Bushing	FP-R55647		w/Con. Rod marked R51727, R80034; 1.3765" ID, 1.500" OD, 1.570" O.A.L.
6	Pin Bushing	FP-T23471		1.1896" ID, 1.313" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R80033		w/Con. Rod marked R51727, R80034; Torque-To-Yield bolt; Replacement recommended
12	Con. Rod Bolt	FP-R74194		w/Con. Rod marked T20007, R51727, R58979; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	FP-RE27348	STD	
6	Rod Pair	FP-RE27349	10	
6	Rod Pair	FP-RE27358	20	
6	Rod Pair	FP-RE27364	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE507852	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	FP-RE66820	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-359DIFK		w/Con. Rod marked R51727, R80034; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-359DOHK		w/Con. Rod marked R51727, R80034; Incl. front & rear seals; Crankshaft code 4701; Crankshaft marked R108679; Incl. Torque-To-Yield con. rod bolts

Combine **6359T Eng.** *Cotton Picker* **6359T Eng.** *Grader* **6359T Eng.** *Loader* **6359T Eng.** *Wheel Tractor* **6359T Eng.** *Loader Tractor* **6359T Eng.** *Skidder* **6359T Eng.** *Backhoe* **6359T Eng.** **86**

5.9L 359 OHV Turbo-Diesel L6, 4.1875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Set	**FP-RE38852**		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-R89219**	*STD*	6359T Engs.; Optional Non-Stellite; 1 groove; Chrome plated stem; 1.8210" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Intake	**FP-R83071**	*STD*	6359T Engs.; Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3720" Stem Dia., 5.1660" O.A.L.
6	Intake	**FP-R89223**	*3*	6359T Engs.; Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3750" Stem Dia., 5.1660" O.A.L.
6	Intake	**FP-R89224**	*15*	6359T Engs.; Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3870" Stem Dia., 5.1660" O.A.L.
6	Exhaust	**FP-R79624**	*STD*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Exhaust	**FP-R79625**	*3*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
6	Exhaust	**FP-R79626**	*15*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
6	Exhaust	**FP-R79627**	*30*	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
24	Keeper	**FP-41339**		1 groove; Square cut key groove
24	Keeper	**FP-T20077**		1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	**VK-138B**		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	**FP-R26125**		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	**FP-RE11410**		Exh. & Int.
1	Oil Filler Cap Gasket	**FP-R80135**		Oil filler neck code 1201; From Ser. No. 607,181; L.H. Auxiliary drive
1	Oil Filler Cap Gasket	**FP-T20328**		Rocker arm cover code 1103; Oil filler neck code 1201; To Ser. No. 607,180; Oil filler neck codes 1202, 1203, 1206
1	Oil Filler Cap Gasket	**FP-T20328**		Rocker arm cover codes 1103, 1104

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	**FP-R87627**		O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R56463**		Aftercooled; Rocker cover breather tube; Breather tube codes 2902, 2905
1	O-Ring	**FP-R56463**		Rocker cover breather tube; Breather tube code 2901 R.H.; Codes 2902, 2903 L.H.; Codes 2905, 2909, 2915

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	**FP-R53108**		3-Hole mount; Starting motor codes 3002, 3011, 3013, 3016, 3017, 3018

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	**FP-JD9449**		Front; Delco-Remy Nos. 1100490, 1103128, 1105175; Code 3103; 12 Volt, 72 amp alternator
1	Ball Brg.	**FP-JD9449**		Front; Delco-Remy Nos. 1100491, 1100580; Code 3102; 12 Volt, 55 amp alternator
1	Ball Brg.	**FP-JD9449**		Front; Delco-Remy Nos. 1102926, 1103124, 1105422; Code 3105; 12 Volt, 63 amp alternator
1	Ball Brg.	**FP-JD9449**		Front; Delco-Remy Nos. 1103128, 1105175; Code 3103; 12 Volt, 72 amp alternator
1	Ball Brg.	**FP-JD9449**		Front; Motorola Code 3104; 12 Volt, 30 amp alternator
2	Ball Brg.	**FP-JD9449**		Front & Rear; Code 3101; 65 amp alternator
2	Ball Brg.	**FP-JD9449**		Front & Rear; Code 3109; w/Auxiliary drive gear; 65 amp alternator
2	Ball Brg.	**FP-JD9449**		Front & Rear; Code 3117; 24 Volt, 45 amp alternator
2	Ball Brg.	**FP-JD9449**		Front & Rear; Motorola replacement; 12 Volt, 65 amp alternator
2	Ball Brg.	**FP-JD9449**		Front & Rear; Motorola No. 70D42179T02; 24 Volt, 45 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Air Intake Gasket	**FP-R81275**		

(continued on next page)

86 (cont.) *Combine* **6359T Eng.** *Cotton Picker* **6359T Eng.** *Grader* **6359T Eng.** *Loader* **6359T Eng.** *Wheel Tractor* **6359T Eng.** *Loader Tractor* **6359T Eng.** *Skidder* **6359T Eng.** *Backhoe* **6359T Eng.**

5.9L 359 OHV Turbo-Diesel L6, 4.1875" Bore

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	**FP-R97454**		6359T; Fuel pump to cover; Front cover
1	Timing Gear Cover Gasket	**FP-T20273**		6359T; Timing gear cover; Access cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
12	Lifter	**FP-T20073**		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	**FP-R125066**		6359T Engs.; Gear cover
6	Fuel Injector Seal	**FP-R79605**		Fuel line connection; Nozzle marked 26992, 27337; 9.270MM X 13.600MM X 5.080MM
6	Fuel Injector Nut	**FP-R79604**		w/Injector marked 27333; From Ser. No. 410,664
12	Washer Type Seal	**FP-R51936**		Leak-off & return line seals; Nozzle codes 1602, 1603, 1621, 1624; w/Nozzle marked 26992, 27337; From Ser. No. 410,664
6	Washer Type Seal	**FP-R48000**		Lower; w/Nozzle marked 26992, 27337
6	Washer Type Seal	**FP-R60746**		Upper; w/Nozzle marked 26992, 27337; To Ser. No. 753,261

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	**FP-R105346**		
1	Turbocharger Mounting Gasket	**FP-R89879**		
1	Turbocharger Oil Supply Gskt.	**FP-R97348**		Turbo code 6501

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	**FP-R47191**		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	**FP-R56812**		w/Pump housing marked R90783
1	Water Pump Repair/Rebuild Kit	**FP-864340979**		w/Pump housing marked R51661, R73606, R73724, R79171
1	Water Pump Repair/Rebuild Kit	**FP-RE62661**		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	**FP-R56809**		w/Pump housing marked R90783
1	Oil Seal Kit	**FP-AR101549**		Water Pump; w/Pump housing marked R90783
1	Water Pump Mounting Gasket	**FP-T20243**		w/Pump housing marked R78287, R85023, R86824, R90783, R99665
1	Shaft & Bearing Assembly	**FP-JD8643**		w/Pump housing marked R90783

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	**FP-AR48675**		Thermostat code 2204; Thermostat cover code 2102 Vertical; Housing code 3901; 180 Deg.
1	Thermostat Gasket	**FP-T20219**		Thermostat housing code 3901
1	Thermostat Cover Gasket	**FP-R54638**		Thermostat cover codes 2102, 2108, 2111; Thermostat housing codes 3901, 3904; w/Two thermostats
1	Therm. Hsg. - Water Mfld. Gsk	**FP-R54641**		Thermostat housing to cyl. head
2	O-Ring	**FP-R56461**		Thermostat housing tube seals; Housing code 3901
2	O-Ring	**FP-R56461**		Thermostat housing tube seals; Housing codes 3904, 3905

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	**FP-R97351**		
1	Oil Pan Gasket Set	**FP-PG303PS**		Oil pump codes 5001, 5002
1	Block to End Plate Front Gskt	**FP-R131794**		Front plate code 3602

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	**FP-PG359S**		
1	Complete Overhaul Gasket Set	**FP-RE38858**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE38858WS**		Incl. crankshaft seals

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Washer	**FP-R105714**		Oil cooler; Modine Oil Cooler codes 5911, 5915
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; Cooler code 5907; Water pump code 2023; To Ser. No. 795,106; 2.700" X 3.000" X .180"
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; Cooler code 5907; Water pump codes 2004, 2008, 2023; To Ser. No. 498,385; 2.700" X 3.000" X .180"
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; Cooler code 5911; Water pump codes 2004, 2008, 2023; From Ser. No. 795,107; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft code 4701; Crankshaft marked T23266

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		

(continued on next page)

Combine **6359T Eng.** *Cotton Picker* **6359T Eng.** *Grader* **6359T Eng.** *Loader* **6359T Eng.** *Wheel Tractor* **6359T Eng.** *Loader Tractor* **6359T Eng.** *Skidder* **6359T Eng.** *Backhoe* **6359T Eng.**

86 (cont.)

5.9L 359 OHV Turbo-Diesel L6, 4.1875" Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	SEALS - FRONT CRANK (cont.)	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-H35244		Crankshaft pulley; Crankshaft, Bearing code 4701; Crankshaft marked R108678, RE60489, T23266

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		Crankshaft, Bearing code 4701
1	Crankshaft Rear Seal	FP-RE24959		Flywheel housing codes 1403, 1404, 1405, 1410, 1411, 1420, 1422, 1425

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3006	STD	w/Flanged thrust brg.
1	Main Set	FP-MBK300610	10	w/Flanged thrust brg.
1	Main Set	FP-MBK300620	20	w/Flanged thrust brg.
1	Main Set	FP-MBK300630	30	w/Flanged thrust brg.
6	Plain Main Brg.	FP-RE27352	STD	
6	Plain Main Brg.	FP-RE27353	10	
6	Plain Main Brg.	FP-RE27360	20	
6	Plain Main Brg.	FP-RE27368	30	
1	Flanged Main Brg.	FP-RE521350	STD	
1	Flanged Main Brg.	FP-RE526754	10	
1	Flanged Main Brg.	FP-RE527235	20	
1	Flanged Main Brg.	FP-RE527236	30	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R61871		Oil pump inlet; Pump codes 5002, 5003
1	O-Ring	FP-R61871		Oil pump inlet; Pump codes 5004, 5007
1	O-Ring	FP-R74354		Oil pump outlet tube; Pump codes 5001, 5005; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck codes 1200, 1299; w/o filler neck cover gskt.
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck codes 1201, 1202, 1203, 1206, 1298, 1299
1	Oil Pump Seal Ring	FP-R79563		Oil pump outlet adapter; Pump codes 5002, 5003, 5007; w/Pump marked R54629

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/Sealing Rings	FP-RE500023		
6	Cylinder Kit Complete	FP-RE33115		w/Con. Rod marked R58979, R80032, R113612

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	FP-R57451		Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R80033		w/Con. Rod marked R58979, R80032, R113612; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	FP-RE27348	STD	
6	Rod Pair	FP-RE27349	10	
6	Rod Pair	FP-RE27358	20	
6	Rod Pair	FP-RE27364	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE507852	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	FP-RE66820	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-359TIFK		w/Con. Rod marked R58979, R80032, R113612; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-359TOHK		w/Con. Rod marked R58979, R80032, R113612; Incl. front & rear seals; Crankshaft code 4701; Crankshaft marked T23266; Incl. Torque-To-Yield con. rod bolts

Combine **6362G Eng.** *Power Unit* **6362G Eng.** *Wheel Tractor* **6362G Eng.** *Loader Tractor* **6362G Eng.**

87

5.9L 362 OHV L6, 4.25" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Ventilator Pump Gasket	FP-R31340		

(continued on next page)

87 (cont.) *Combine* 6362G Eng. *Power Unit* 6362G Eng. *Wheel Tractor* 6362G Eng. *Loader Tractor* 6362G Eng.

5.9L 362 OHV L6, 4.25" Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
24	Keeper	FP-41339		1 groove; Square cut key groove
24	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	Hour Meter Housing Gasket	FP-R26173		
1	Speed/Hour Meter Gasket	FP-R44853		From Ser. No. 282,363

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Front Timing Cover Gasket	FP-R26084		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
4	O-Ring	FP-T13119		Manifold bypass tubes
1	Shaft & Bearing Assembly	FP-JD9355		w/Pump housing marked R41313, R41317, R44116, R44119, R48742

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat Cover Gasket	FP-R42694		One hole

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	FP-R88397		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R49377		
1	Washer	FP-B3586R		Oil filter cover packing

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-4R46903	*STD*	
4	Cam Brg.	FP-R46903	*STD*	

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-B2762R		Cooler bypass tube; To Ser. No. 282,362
1	Oil Cooler Side-Upper Gasket	FP-R27951		
1	Oil Cooler Top Gasket	FP-R32123		

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3005	*STD*	Late Engs.
1	Main Set	FP-MBK300510	*10*	Late Engs.
1	Main Set	FP-MBK300520	*20*	Late Engs.
1	Main Set	FP-MBK300530	*30*	Late Engs.
1	Thrust Washer Set	FP-AR77747	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R495R		Ventilator tube; Smooth
1	Oil Filter Seal Ring	FP-R26163		Filter body; To Ser. No. 357,083
1	Oil Filter Housing Gasket	FP-R26354		

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Sealing Ring, Liner	FP-112847		From Ser. No. 357,084

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	FP-3129YA20		1.252" ID, 1.3785" OD, 1.510" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-AR45723	*STD*	
6	Rod Pair	FP-AR46396	*10*	
6	Rod Pair	FP-AR46397	*20*	
6	Rod Pair	FP-AR46398	*30*	

Wheel Tractor 6362LP Eng. (LPG) 88
5.9L 362 OHV LPG L6, 4.25" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Ventilator Pump Gasket	FP-R31340		

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	Hour Meter Housing Gasket	FP-R26173		
1	Speed/Hour Meter Gasket	FP-R44853		From Ser. No. 282,363

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Front Timing Cover Gasket	FP-R26084		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
4	O-Ring	FP-T13119		Manifold bypass tubes
1	Shaft & Bearing Assembly	FP-JD9355		w/Pump housing marked R41313, R41317, R44116, R44119, R48742

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	FP-R88397		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-B3586R		Oil filter cover packing

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-B2762R		Cooler bypass tube; To Ser. No. 282,362

CRANKSHAFT/OIL PUMP

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R495R		Ventilator tube; Smooth
1	Oil Filter Seal Ring	FP-R26163		Filter body; To Ser. No. 357,083
1	Oil Filter Housing Gasket	FP-R26354		

Wheel Tractor 6362NG Eng. (Natural Gas) 89
5.9L 362 OHV NG L6, 4.25" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Ventilator Pump Gasket	FP-R31340		

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	Hour Meter Housing Gasket	FP-R26173		
1	Speed/Hour Meter Gasket	FP-R44853		From Ser. No. 282,363

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Front Timing Cover Gasket	FP-R26084		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
4	O-Ring	FP-T13119		Manifold bypass tubes
1	Shaft & Bearing Assembly	FP-JD9355		w/Pump housing marked R41313, R41317, R44116, R44119, R48742

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	FP-R88397		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R49377		

CRANKSHAFT/OIL PUMP

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R495R		Ventilator tube; Smooth
1	Oil Filter Seal Ring	FP-R26163		Filter body; To Ser. No. 357,083
1	Oil Filter Housing Gasket	FP-R26354		

90 *Wheel Tractor* 720, 730 Engs.
5.9L 362 OHV L2, 6" Bore

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Motorola; 12 Volt, 35 amp alternator, 55 amp alternator; To Ser. No. 282,362

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
4	Lifter	FP-R52773		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R40777		Ventilator pump housing

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
2	Cone Taper Brg.	FP-JD8135		Position 1-2
2	Cup Taper Brg.	FP-JD7438		Position 1-2

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-3K9619		

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-A4730R		Dipstick

91 *Wheel Tractor* 720, 730 Engs.
5.9L 362 OHV Diesel L2, 6" Bore

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Motorola; 12 Volt, 35 amp alternator, 55 amp alternator; To Ser. No. 282,362

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	Speed/Hour Meter Gasket	FP-R44853		From Ser. No. 282,363

COOLING SYSTEM

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat Cover Gasket	FP-R42694		One hole

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-3K9619		

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-A4730R		Dipstick

92 *Wheel Tractor* 720, 730 Engs.
6.2L 378 OHV L2, 6.125" Bore

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
2	Cone Taper Brg.	FP-JD8135		Position 1-2
2	Cup Taper Brg.	FP-JD7438		Position 1-2

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-3K9619		

93 *Wheel Tractor* 70 Eng.
6.2L 380 OHV L2, 5.875" Bore

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
2	Cone Taper Brg.	FP-JD8135		Position 1-2
2	Cup Taper Brg.	FP-JD7438		Position 1-2

(continued on next page)

Wheel Tractor **70 Eng.** **93**
6.2L 380 OHV L2, 5.875" Bore **(cont.)**

CYLINDER COMPONENTS

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	**FP-2155SB**	*STD*	

Power Unit **6381D Eng.** *Wheel Tractor* **6381D Eng.** **94**
6.2L 381 OHV Diesel L6, 4.125" Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-R26124**	*STD*	1.7770" Head Dia., .3720" Stem Dia., 6.2580" O.A.L.
6	Exhaust	**FP-R26123**	*STD*	1.5900" Head Dia., .3720" Stem Dia., 6.2580" O.A.L.
6	Exhaust	**FP-V4100**	*STD*	1.5900" Head Dia., .3720" Stem Dia., 6.2580" O.A.L.
24	Keeper	**FP-B367R**		2 groove
24	Keeper	**VK-66R**		2 groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	**245-1625-1** Std Only		1.6300" OD, 1.3750" ID, .2160" Depth

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	**FP-R28654**		.3750" ID, 3.3130" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	**FP-R26125**		2.1200" Free Height

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	**ST-2004**		Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal Bulk	**ST-2004BC**		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-4R46903**	*STD*	
4	Cam Brg.	**FP-R46903**	*STD*	

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE22764**		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK400E6**	*STD*	w/Flanged brg.
1	Main Set	**FP-MBK400E610**	*10*	w/Flanged brg.
1	Main Set	**FP-MBK400E620**	*20*	w/Flanged brg.
1	Main Set	**FP-MBK400E630**	*30*	w/Flanged brg.
1	Main Set	**FP-MBK400L6**	*STD*	w/Thrust washer; w/Block marked R40930, R40940
1	Main Set	**FP-MBK400L610**	*10*	w/Thrust washer; w/Block marked R40930, R40940
1	Main Set	**FP-MBK400L620**	*20*	w/Thrust washer; w/Block marked R40930, R40940
1	Main Set	**FP-MBK400L630**	*30*	w/Thrust washer; w/Block marked R40930, R40940
1	Thrust Washer Set	**FP-AR77747**	*STD*	

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R32050**	*STD*	OVERBORE To 4.250"
6	Liner w/Sealing Rings	**FP-R32050WS**	*STD*	OVERBORE To 4.250"
6	Cylinder Kit Complete	**FP-RE23173**	*STD*	OVERBORE To 4.250"
6	Sealing Ring, Liner	**FP-112847**		OVERBORE To 4.250"

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Kit w/Pin & Retainers	**FP-RE23172WP**	*STD*	OVERBORE To 4.250"
6	Pin Bushing	**FP-R30939**		
6	Pin Bushing	**FP-3129YA20**		1.252" ID, 1.3785" OD, 1.510" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	**FP-AR45723**	*STD*	
6	Rod Pair	**FP-AR46396**	*10*	
6	Rod Pair	**FP-AR46397**	*20*	
6	Rod Pair	**FP-AR46398**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-AR55630**	*STD*	OVERBORE To 4.250"; 1-1/8, 1-3/32, 1-1/4 (1 cyl. set)
3	Premium Set	**FP-AR55630S**	*STD*	OVERBORE To 4.250"; 2-1/8, 2-3/32, 2-1/4 (2 cyl. set)

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94 *Power Unit* 6381D Eng. *Wheel Tractor* 6381D Eng. (cont.)
6.2L 381 OHV Diesel L6, 4.125" Bore

CYLINDER COMPONENTS (cont.)

QTY	PISTON RINGS (cont.)	PART NO.	SIZE	DESCRIPTION
6	Premium Single Cylinder Set	W-9348KX + Std Only		OVERBORE To 4.250"; 1-1/8, 1-3/32, 1-1/4 (2 cyl. set); When depleted use FP-AR55630

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	FP-404DEOHK		OVERBORE To 4.250"; w/Flanged main brg.; Incl. Torque-To-Yield con. rod bolts

95 *Combine* 6404D Eng. *Power Unit* JD404D, 6404D Engs. *Wheel Tractor* 6404D Eng. *Loader Tractor* 6404D Eng. *Backhoe* 6404D Eng.
6.6L 404 OHV Diesel L6 (Early), 4.25" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R49866		
1	Head Gasket	FP-R45615		To Ser. No. 214,999
1	Head Gasket	FP-R48291		To Ser. No. 357,083
1	Head Set	FP-AR53630		From Ser. No. 215,000 to Ser. No. 335,845
1	Head Set	FP-AR63940		From Ser. No. 355,846
1	Head Set	FP-AR53625		Replacement Block; To Ser. No. 214,999

QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
6	Head Bolt	FP-R88042		w/Block marked R40610, R43310, R45980, R47020, R47110, R47170, R48440, R49470, R49650, R59850, R72128; From Ser. No. 215,000; 3.250" length
5	Head Bolt	FP-R88043		w/Block marked R40610, R43310, R45980, R47020, R47110, R47170, R48440, R49470, R49650, R59850, R72128; From Ser. No. 215,000; 5.250" length
8	Head Bolt	FP-R88044		w/Block marked R40610, R43310, R45980, R47020, R47110, R47170, R48440, R49470, R49650, R59850, R72128; From Ser. No. 215,000; 6.250" length
7	Head Bolt	FP-R88045		w/Block marked R40610, R43310, R45980, R47020, R47110, R47170, R48440, R49470, R49650, R59850, R72128; From Ser. No. 215,000; 7.250" length

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R43883	STD	From Ser. No. 215,000; 1 groove; Chrome plated stem; 1.9020" Head Dia., .3720" Stem Dia., 6.1510" O.A.L.
6	Intake	FP-R45003	3	From Ser. No. 215,000; 1 groove; Chrome plated stem; 1.9020" Head Dia., .3750" Stem Dia., 6.1510" O.A.L.
6	Intake	FP-R45005	30	From Ser. No. 215,000; 1 groove; Chrome plated stem; 1.9020" Head Dia., .4020" Stem Dia., 6.1510" O.A.L.
6	Intake	FP-R44174	STD	From Ser. No. 82,802 to Ser. No. 214,999; 2 groove; Chrome plated stem; 1.9020" Head Dia., .3720" Stem Dia., 6.2450" O.A.L.
6	Intake	FP-R26124	STD	To Ser. No. 82,801; 1.7770" Head Dia., .3720" Stem Dia., 6.2580" O.A.L.
6	Exhaust	FP-R43679	STD	From Ser. No. 215,000; 1 groove; Chrome plated stem; 1.7150" Head Dia., .3720" Stem Dia., 6.1330" O.A.L.
6	Exhaust	FP-R43787	3	From Ser. No. 215,000; 1 groove; Chrome plated stem; 1.7150" Head Dia., .3750" Stem Dia., 6.1330" O.A.L.
6	Exhaust	FP-R43788	15	From Ser. No. 215,000; 1 groove; Chrome plated stem; 1.7150" Head Dia., .3870" Stem Dia., 6.1330" O.A.L.
6	Exhaust	FP-R43789	30	From Ser. No. 215,000; 1 groove; Chrome plated stem; 1.7150" Head Dia., .4020" Stem Dia., 6.1330" O.A.L.
6	Exhaust	FP-R44175	STD	From Ser. No. 82,802 to Ser. No. 214,999; 2 groove; Chrome plated stem; 1.7150" Head Dia., .3720" Stem Dia., 6.2270" O.A.L.
6	Exhaust	FP-R26123	STD	To Ser. No. 82,801; 1.5900" Head Dia., .3720" Stem Dia., 6.2580" O.A.L.
24	Keeper	FP-T20077		From Ser. No. 215,000; 1 groove; Square cut key groove; Hardened
24	Keeper	FP-41339		Model JD600 From Ser. No. 215,000; 1 groove; Square cut key groove
24	Keeper	FP-B367R		Model JD600 To Ser. No. 214,999; 2 groove
24	Keeper	VK-66R		Model JD600 To Ser. No. 214,999; 2 groove; Hardened
24	Keeper	FP-B367R		Model 4020 To Ser. No. 200,999; 2 groove
24	Keeper	VK-66R		Model 4020 To Ser. No. 200,999; 2 groove; Hardened
24	Keeper	FP-41339		Models 4000, 4020 From Ser. No. 201,000; 1 groove; Square cut key groove
24	Keeper, Bulk	VK-138B		Model JD600 From Ser. No. 215,000; 1 groove; Square cut key groove; Carton of 1000

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+ Superseded Part Number

Combine **6404D Eng.** *Power Unit* **JD404D, 6404D Engs.** *Wheel Tractor* **6404D Eng.** *Loader Tractor* **6404D Eng.** *Backhoe* **6404D Eng.** **95 (cont.)**

6.6L 404 OHV Diesel L6 (Early), 4.25" Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE (cont.)	PART NO.	SIZE	DESCRIPTION
24	Keeper, Bulk	**VK-138B**		Models 4000, 4020 From Ser. No. 201,000; 1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	**FP-R43681**	*STD*	1.7555" OD, 1.5000" ID, .2480" Depth
6	Int.	**FP-R43680**	*STD*	
6	Int.	**FP-R82508**	*10*	1.7650" OD, 1.5000" ID, .2160" Depth

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	**FP-R28654**		Exh. & Int.; To Ser. No. 214,999; .3750" ID, 3.3130" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	**FP-R26125**		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	**FP-RE11410**		Exh.; From Ser. No. 215,000
1	Oil Filler Cap Gasket	**FP-T20328**		Rocker arm cover code 1101

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	**ST-2011**		Int.; Model JD600 To Ser. No. 214,999; Positive type; Rubber/PTFE
6	Valve Stem Seal	**ST-2011**		Int.; Model 4020 To Ser. No. 200,999; Positive type; Rubber/PTFE
6	Valve Stem Seal Bulk	**ST-2011BC**		Int.; Model JD600 To Ser. No. 214,999; Positive type; Carton of 100; Rubber/PTFE
6	Valve Stem Seal Bulk	**ST-2011BC**		Int.; Model 4020 To Ser. No. 200,999; Positive type; Carton of 100; Rubber/PTFE

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	**FP-R53108**		3-Hole mount; Starting motor code 3004

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	**FP-JD9449**		Front; Motorola; 12 Volt, 35 amp alternator, 72 amp alternator; To Ser. No. 357,083

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	Hour Meter Housing Gasket	**FP-R26173**		To Ser. No. 357,083
1	Speed/Hour Meter Gasket	**FP-R62410**		To Ser. No. 357,083

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	**FP-R83021**		One Exh. hole
2	Exhaust Manifold Gasket	**FP-R83020**		Two Exh. holes
3	Intake Manifold Gasket	**FP-R26297**		From Ser. No. 357,084; w/Int. manifold R46411, AR45275
3	Intake Manifold Gasket	**FP-R26297**		To Ser. No. 357,083; w/Int. manifolds R46411, AR45275
1	Cyl. Block Valley Cover Gskt.	**FP-R46192**		From Ser. No. 215,000 to Ser. No. 335,845
1	Cyl. Block Valley Cover Gskt.	**FP-R46192**		Replacement Block; To Ser. No. 214,999

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	**FP-R26058**		
1	Timing Gear Cover Gasket	**FP-R50390**		Access cover
1	Timing Gear Cover Gasket	**FP-R50353**		From Ser. No. 357,084
1	Timing Gear Cover Gasket	**FP-R46984**		Housing to block
1	Front Timing Cover Gasket	**FP-R26084**		From Ser. No. 357,084
1	Front Timing Cover Gasket	**FP-R46158**		To Ser. No. 357,083

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft	**FP-R71530**		From Ser. No. 215,000; w/Camshaft marked R65565, R71530
1	Camshaft Plug	**FP-R26115**		
12	Lifter	**FP-R52773**		From Ser. No. 215,000
12	Lifter	**FP-R26342**		To Ser. No. 214,999
1	Prelube	**55-400**		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

QTY	CAMSHAFT KIT	PART NO.	SIZE	DESCRIPTION
1	Cam/Lifter Kit	**FP-AR100386**		Cam marked R65565, R71530; From Ser. No. 215,000; Incl. (12) FP-R52773, (1) FP-R71530

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
12	Washer	**FP-R48693**		Inj. leak-off screw; From Ser. No. 357,084

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95 (cont.) *Combine* **6404D Eng.** *Power Unit* **JD404D, 6404D Engs.** *Wheel Tractor* **6404D Eng.** *Loader Tractor* **6404D Eng.** *Backhoe* **6404D Eng.**

6.6L 404 OHV Diesel L6 (Early), 4.25" Bore

FUEL SYSTEM & PARTS (cont.)

QTY	FUEL INJECTION (cont.)	PART NO.	SIZE	DESCRIPTION
6	Washer	**FP-R64840**		Injector nozzle; From Ser. No. 500,000; Steel
21	Clamp	**FP-R34766**		Pump code 1602; From Ser. No. 500,000
12	Clamp	**FP-R34766**		Pump codes 1602, 1603; To Ser. No. 499,999
6	Fuel Line Connector Gasket	**FP-R59294**		Leak-off connector washer; From Ser. No. 500,000; Alum.

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	**FP-RE42211**		From Ser. No. 82,802 to Ser. No. 422,385; Transfer pump
1	Mechanical Fuel Pump	**FP-RE43273**		From Ser. No. 90,999
1	Mechanical Fuel Pump	**FP-AR57264**		To Ser. No. 82,801
1	O-Ring	**FP-R26286**		Filter line to pump
6	O-Ring	**FP-R51603**		Fuel nozzle; From Ser. No. 500,000

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	**FP-R40979**		w/Pump housing marked R41315, R44122; To Ser. No. 357,083
1	Water Pump Repair/Rebuild Kit	**FP-AR55617**		w/Pump housing marked R26337, R27547
1	Water Pump Repair/Rebuild Kit	**FP-AR98564**		w/Pump housing marked R34964
1	Water Pump Housing Gasket	**FP-R50410**		w/Pump housing marked R51683
1	Water Pump Spacer Gasket	**FP-R42406**		w/Pump housing marked R51683
4	O-Ring	**FP-T13119**		Manifold bypass tubes
1	Shaft & Bearing Assembly	**FP-JD9212**		w/Pump housing marked R26377, R27547, R34977, R34982; To Ser. No. 214,999
1	Shaft & Bearing Assembly	**FP-JD9355**		w/Pump housing marked R41315, R41318, R44122, R48743; To Ser. No. 357,083
1	Shaft & Bearing Assembly	**FP-JD9257**		w/Pump housing marked R51683

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	**FP-R36846**		w/Housing marked R41853, R42664; 180 Deg. to 200 Deg. range
2	Thermostat Cover Gasket	**FP-R42694**		One hole
1	Thermostat Cover Gasket	**FP-R46479**		Two hole

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	**FP-R88397**		From Ser. No. 357,083
1	Cyl. Block Water Hole Cvr Gsk	**FP-R43595**		Cyl. head water opening cover gskt.

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	**FP-R71918**		
1	Oil Pan Gasket	**FP-R49377**		From Ser. No. 357,084
1	Washer	**FP-B3586R**		Oil filter cover packing; To Ser. No. 357,083

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	**FP-PG404DLS**		From Ser. No. 215,000
1	In-Frame Gasket Set	**FP-PG404DMS**		From Ser. No. 215,000 to Ser. No. 335,845
1	In-Frame Gasket Set	**FP-PG404DES**		To Ser. No. 214,999
1	Complete Overhaul Gasket Set	**FP-AR53631**		From Ser. No. 215,000 to Ser. No. 335,845; Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-AR53631WS**		From Ser. No. 215,000 to Ser. No. 335,845; Incl. Crankshaft seals
1	Complete Overhaul Gasket Set	**FP-AR63938**		From Ser. No. 335,846; Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-AR63938WS**		From Ser. No. 335,846; Incl. Crankshaft seals
1	Complete Overhaul Gasket Set	**FP-AR53626**		Replacement Block; To Ser. No. 214,999; Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-AR53626WS**		Replacement Block; To Ser. No. 214,999; Incl. Crankshaft seals

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-4R46903**	*STD*	
4	Cam Brg.	**FP-R46903**	*STD*	

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	**FP-AR55394**		From Ser. No. 335,846
1	Oil Cooler Installation Kit	**FP-58952**		From Ser. No. 357,084
2	Oil Cooler Gasket	**FP-R27948**		To Ser. No. 357,083
2	O-Ring	**FP-B2762R**		Cooler bypass tube; To Ser. No. 357,083
1	Oil Cooler Base Hsg. Gasket	**FP-R34110**		From Ser. No 215,000 to Ser. No. 335,845
1	Oil Cooler Base Hsg. Gasket	**FP-R34110**		Replacement Block; To Ser. No. 214,999
1	Oil Cooler Base Gasket	**FP-R34109**		From Ser. No 215,000 to Ser. No. 335,845
1	Oil Cooler Base Gasket	**FP-R34109**		Replacement Block; To Ser. No. 214,999
1	Oil Cooler Cover Gasket	**FP-R50419**		
2	Oil Cooler Side-Upper Gasket	**FP-R27951**		To Ser. No. 357,083
1	Oil Cooler Top Gasket	**FP-R32123**		To Ser. No. 357,083
1	Oil Cooler to Filter Gasket	**FP-R43558**		To Ser. No. 357,083

(continued on next page)

Combine **6404D Eng.** *Power Unit* **JD404D, 6404D Engs.** *Wheel Tractor* **6404D Eng.** *Loader Tractor* **6404D Eng.** *Backhoe* **6404D Eng.** **95 (cont.)**

6.6L 404 OHV Diesel L6 (Early), 4.25" Bore

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE53422**		Gears incl.
1	Crankshaft	**FP-AR96189**		Gears not incl.
1	Oil Seal Kit	**FP-SK49025**		Incl. front & rear seals
QTY	**SEALS - FRONT CRANK**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Oil Seal Kit	**FP-AR49025**		
QTY	**SEALS - REAR CRANK**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Oil Seal	**FP-RE22764**		PTFE
QTY	**MAIN BEARINGS**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Main Set	**FP-MBK400L4**	*STD*	From Ser. No. 215,000; w/5 main brgs.
1	Main Set	**FP-MBK400L410**	*10*	From Ser. No. 215,000; w/5 main brgs.
1	Main Set	**FP-MBK400L420**	*20*	From Ser. No. 215,000; w/5 main brgs.
1	Main Set	**FP-MBK400L6**	*STD*	From Ser. No. 215,000; w/7 main brgs.
1	Main Set	**FP-MBK400L610**	*10*	From Ser. No. 215,000; w/7 main brgs.
1	Main Set	**FP-MBK400L620**	*20*	From Ser. No. 215,000; w/7 main brgs.
1	Main Set	**FP-MBK400L630**	*30*	From Ser. No. 215,000; w/7 main brgs.
1	Main Set	**FP-MBK400E6**	*STD*	To Ser. No. 214,999; w/Flanged brg.
1	Main Set	**FP-MBK400E610**	*10*	To Ser. No. 214,999; w/Flanged brg.
1	Main Set	**FP-MBK400E620**	*20*	To Ser. No. 214,999; w/Flanged brg.
1	Main Set	**FP-MBK400E630**	*30*	To Ser. No. 214,999; w/Flanged brg.
6	Plain Main Brg.	**FP-AR74814**	*STD*	From Ser. No. 215,000
6	Plain Main Brg.	**FP-AR74816**	*10*	From Ser. No. 215,000
6	Plain Main Brg.	**FP-AR74817**	*20*	From Ser. No. 215,000
6	Plain Main Brg.	**FP-AR74818**	*30*	From Ser. No. 215,000
6	Plain Main Brg.	**FP-AR49243**	*STD*	To Ser. No. 214,999
6	Plain Main Brg.	**FP-AR49245**	*10*	To Ser. No. 214,999
6	Plain Main Brg.	**FP-AR49246**	*20*	To Ser. No. 214,999
6	Plain Main Brg.	**FP-AR49247**	*30*	To Ser. No. 214,999
1	Flanged Main Brg.	**FP-AR77748**	*STD*	
1	Flanged Main Brg.	**FP-AR77750**	*10*	
1	Flanged Main Brg.	**FP-AR77751**	*20*	
1	Flanged Main Brg.	**FP-AR77752**	*30*	
1	Flanged Main Brg.	**FP-AR49242**	*STD*	Flanged; To Ser. No. 214,999
1	Flanged Main Brg.	**FP-AR49238**	*10*	Flanged; To Ser. No. 214,999
1	Flanged Main Brg.	**FP-AR49239**	*20*	Flanged; To Ser. No. 214,999
1	Flanged Main Brg.	**FP-AR49240**	*30*	Flanged; To Ser. No. 214,999
1	Flanged Main Brg.	**FP-AR77754**	*STD*	Flangeless; To Ser. No. 214,999
1	Flanged Main Brg.	**FP-AR77756**	*10*	Flangeless; To Ser. No. 214,999
1	Flanged Main Brg.	**FP-AR77757**	*20*	Flangeless; To Ser. No. 214,999
1	Flanged Main Brg.	**FP-AR77758**	*30*	Flangeless; To Ser. No. 214,999
1	Thrust Washer Set	**FP-AR77747**	*STD*	Use w/Flangeless main brg.
QTY	**OIL PUMP**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Oil Pump Spring	**FP-R26151**		
1	O-Ring	**FP-A4730R**		To Ser. No. 357,083; Dip stick seal
1	O-Ring	**FP-R59343**		Ventilator tube seal; Rocker cover codes 1101, 1102; Grooved
1	O-Ring	**FP-R495R**		Ventilator tube seal; Rocker cover codes 1101, 1102; Smooth
1	Oil Pump Cover Gasket	**FP-R52049**		Int. gskt.
1	Rect. or Square Seal	**FP-R43660**		Filter to housing
1	Oil Filter Seal Ring	**FP-R26163**		Filter body; To Ser. No. 357,083
1	Bypass Body to Cyl. Gasket	**FP-R34753**		To Ser. No. 357,083
1	Oil Filter Housing Gasket	**FP-R26354**		
1	Oil Filter to Block Gasket	**FP-R43774**		w/Filter body marked R54561, R59483, R62110

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R40615**	*STD*	From Ser. No. 215,000
6	Liner w/o Sealing Ring	**FP-R40615**	*STD*	Replacement Block; To Ser. No. 214,999
6	Liner w/o Sealing Ring	**FP-R32050**	*STD*	To Ser. No. 214,999
6	Liner w/Sealing Rings	**FP-R40615WS**	*STD*	Model JD404 From Ser. No. 215,000
6	Liner w/Sealing Rings	**FP-R40615WS**	*STD*	Model JD600 From Ser. No. 215,000
6	Liner w/Sealing Rings	**FP-R32050WS**	*STD*	Models JD404, JD600 To Ser. No. 214,999
6	Liner w/Sealing Rings	**FP-R40615WS**	*STD*	Models 4000, 4020 From Ser. No. 201,000
6	Liner w/Sealing Rings	**FP-R32050WS**	*STD*	Models 4000, 4020 To Ser. No. 200,999
6	Cylinder Kit Complete	**FP-RE23173**	*STD*	w/Block marked R26070, R33180, R34340, R40890, R40900; w/Con. Rod marked R26047, R52225, R58880, R66923; To Ser. No. 214,999
6	Cylinder Kit Complete	**FP-LKRE23163**	*STD*	w/Block marked R26070, R33180, R34340, R40890, R40900; To Ser. No. 214,999; High Ring

(continued on next page)

95 (cont.) *Combine* **6404D Eng.** *Power Unit* **JD404D, 6404D Engs.** *Wheel Tractor* **6404D Eng.** *Loader Tractor* **6404D Eng.** *Backhoe* **6404D Eng.**
6.6L 404 OHV Diesel L6 (Early), 4.25" Bore

CYLINDER COMPONENTS (cont.)

QTY	LINERS (cont.)	PART NO.	SIZE	DESCRIPTION
6	Cylinder Kit Complete	**FP-RE23165**	*STD*	w/Block marked R40610, R43310, R45980, R47020, R47110, R47170, R48440; w/Con. Rod marked R26047, R52225, R58880, R66923; From Ser. No. 215,000 to Ser. No. 335,845
6	Cylinder Kit Complete	**FP-RE23160**	*STD*	w/Block marked R49470, R49650, R59850, R72128; w/Con. Rod marked R26047, R52225, R58880, R66923; From Ser. No. 335,846
6	Cylinder Kit Complete	**FP-RE23170**	*STD*	Replacement Block; w/Block marked R40930; w/Con. Rod marked R26047, R52225, R58880, R66923; To Ser. No. 214,999
6	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		From Ser. No. 215,000
6	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		Replacement Block; To Ser. No. 214,999
6	Cyl. Liner Sealing Ring Kit	**FP-AR40155**		To Ser. No. 214,999
6	Sealing Ring, Liner	**FP-R48767**		From Ser. No. 215,000 to Ser. No. 335,845; Rectangle; Top
6	Sealing Ring, Liner	**FP-R26121**		From Ser. No. 215,000 to Ser. No. 335,845; Round; Middle
6	Sealing Ring, Liner	**FP-R48767**		From Ser. No. 335,846; Rectangle; Top
6	Sealing Ring, Liner	**FP-R26121**		From Ser. No. 335,846; Round; Middle
6	Sealing Ring, Liner	**FP-112847**		From Ser. No. 357,084
6	Sealing Ring, Liner	**FP-R48767**		Replacement Block; To Ser. No. 214,999; Rectangle; Top
6	Sealing Ring, Liner	**FP-R26121**		Replacement Block; To Ser. No. 214,999; Round; Middle
6	Sealing Ring	**FP-SLR2520**		From Ser. No. 215,000; Round; Bottom
6	Sealing Ring	**FP-SLR2378**		Rectangle
6	Sealing Ring	**FP-SLR2520**		Replacement Block; To Ser. No. 214,999; Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-RE23168**		From Ser. No. 215,000
6	Piston Body w/o Pin	**FP-RE23163**		From Ser. No. 335,846; High Ring
6	Piston Body w/o Pin	**FP-RE23172**		Replacement Block; To Ser. No. 214,999
6	Piston Kit w/Pin & Retainers	**FP-RE23168WP**	*STD*	From Ser. No. 215,000
6	Piston Kit w/Pin & Retainers	**FP-RE23163WP**	*STD*	From Ser. No. 335,846; High Ring
6	Piston Kit w/Pin & Retainers	**FP-RE23172WP**	*STD*	Replacement Block; To Ser. No. 214,999
6	Pin	**FP-R44161**		Replacement Block; To Ser. No. 214,999
12	Piston Pin Retainer	**FP-H80753**		
6	Pin Bushing	**FP-R30939**		w/Con. Rod marked R26047, R52225, R58880, R69923

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R66452**		w/Con. Rod marked R26047, R52225, R58880, R66923; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	**FP-AR45723**	*STD*	
6	Rod Pair	**FP-AR46396**	*10*	
6	Rod Pair	**FP-AR46397**	*20*	
6	Rod Pair	**FP-AR46398**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-AR65502**	*STD*	From Ser. No. 335,846; 1-1/8, 1-3/32, 1-3/16 (1 cyl. set)
6	Ring Set Single Cylinder	**FP-AR55630**	*STD*	To Ser. No. 214,999; 1-1/8, 1-3/32, 1-1/4 (1 cyl. set)
6	Ring Set Single Cylinder	**FP-AR51741**	*STD*	2-5/32, 1-3/16 (1 cyl. set)
3	Premium Set	**FP-AR55630S**	*STD*	Check piston grooving before supplying ring set; 2-1/8, 2-3/32, 2-1/4 (2 cyl. set)
6	Premium Single Cylinder Set	**W-9348KX +** Std Only		Check piston grooving before supplying ring set; 1-1/8, 1-3/32, 1-1/4 (2 cyl. set); When depleted use FP-AR55630

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-404DEIFK**		w/Block marked R26070, R33180, R34340, R40890, R40900; w/Con. Rod marked R26047, R52225, R58880, R66923; To Ser. No. 214,999; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-404DMIFK**		w/Block marked R40610, R43310, R45980, R47020, R47110, R47170, R48440; w/Con. Rod marked R26047, R52225, R58880, R66923; From Ser. No. 215,000 to Ser. No. 335,845; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-404DLIFK**		w/Block marked R49470, R49650, R59850, R72128; w/Con. Rod marked R26047, R52225, R58880, R66923; From Ser. No. 335,846; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-404DRBIFK**		Replacement Block; w/Block marked R40930; w/Con. Rod marked R26047, R52225, R58880, R66923; To Ser. No. 214,999; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-404DEOHK**		w/Block marked R26070, R33180, R34340, R40890, R40900; w/Con. Rod marked R26047, R52225, R58880, R66923; To Ser. No. 214,999; Incl. Torque-To-Yield con. rod bolts

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+ Superseded Part Number

Combine **6404D Eng.** *Power Unit* **JD404D, 6404D Engs.** *Wheel Tractor* **6404D Eng.** *Loader Tractor* **6404D Eng.** *Backhoe* **6404D Eng.** 6.6L 404 OHV Diesel L6 (Early), 4.25" Bore — 95 (cont.)

KITS (cont.)

QTY	OVERHAUL KIT (cont.)	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	**FP-404DMOHK**		w/Block marked R40610, R43310, R45980, R47020, R47110, R47170, R48440; w/Con. Rod marked R26047, R52225, R58880, R66923; From Ser. No. 215,000 to Ser. No. 335,845; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-404DLOHK**		w/Block marked R49470, R49650, R59850, R72128; w/Con. Rod marked R26047, R52225, R58880, R66923; From Ser. No. 335,846; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-404DRBOHK**		Replacement Block; w/Block marked R40930; w/Con. Rod marked R26047, R52225, R58880, R66923; To Ser. No. 214,999; Incl. Torque-To-Yield con. rod bolts

Combine **6404D Eng.** *Harvester* **6404D Eng.** *Power Unit* **JD404D, 6404D Engs.** *Wheel Tractor* **6404D Eng.** *Loader Tractor* **6404D Eng.** 6.6L 404 OHV Diesel L6 (Late), 4.25" Bore — 96

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-R43883**	*STD*	1 groove; Chrome plated stem; 1.9020" Head Dia., .3720" Stem Dia., 6.1510" O.A.L.
6	Intake	**FP-R45003**	*3*	1 groove; Chrome plated stem; 1.9020" Head Dia., .3750" Stem Dia., 6.1510" O.A.L.
6	Intake	**FP-R45005**	*30*	1 groove; Chrome plated stem; 1.9020" Head Dia., .4020" Stem Dia., 6.1510" O.A.L.
6	Exhaust	**FP-R43679**	*STD*	1 groove; Chrome plated stem; 1.7150" Head Dia., .3720" Stem Dia., 6.1330" O.A.L.
6	Exhaust	**FP-R43787**	*3*	1 groove; Chrome plated stem; 1.7150" Head Dia., .3750" Stem Dia., 6.1330" O.A.L.
6	Exhaust	**FP-R43788**	*15*	1 groove; Chrome plated stem; 1.7150" Head Dia., .3870" Stem Dia., 6.1330" O.A.L.
6	Exhaust	**FP-R43789**	*30*	1 groove; Chrome plated stem; 1.7150" Head Dia., .4020" Stem Dia., 6.1330" O.A.L.
24	Keeper	**FP-41339**		1 groove; Square cut key groove
24	Keeper	**FP-T20077**		1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	**VK-138B**		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	**FP-R43681**	*STD*	1.7555" OD, 1.5000" ID, .2480" Depth
6	Int.	**FP-R43680**	*STD*	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	**FP-R26125**		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	**FP-RE11410**		Exh.

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft	**FP-R71530**		Model 4230 From Ser. No. 335,846
1	Camshaft	**FP-R71530**		Models 4040, 4320, 4430, 7700
1	Prelube	**55-400**		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

ENGINE BLOCK & PARTS

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Kit Gasket Set	**FP-2601399**		Compl.; Rear main brg. seal incl. and wear sleeve incl.; Timing cover seal and wear sleeve incl.
1	Kit Gasket Set	**260-1399**		Compl.; Rear main brg. seal incl. and wear sleeve incl.; Timing cover seal and wear sleeve incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-4R46903**	*STD*	
4	Cam Brg.	**FP-R46903**	*STD*	

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE22764**		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK400L4**	*STD*	w/5 main brgs.
1	Main Set	**FP-MBK400L410**	*10*	w/5 main brgs.

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96 (cont.) *Combine* **6404D Eng.** *Harvester* **6404D Eng.** *Power Unit* **JD404D, 6404D Engs.** *Wheel Tractor* **6404D Eng.** *Loader Tractor* **6404D Eng.**
6.6L 404 OHV Diesel L6 (Late), 4.25" Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	MAIN BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK400L420**	*20*	w/5 main brgs.
1	Main Set	**FP-MBK400L6**	*STD*	w/7 main brgs.
1	Main Set	**FP-MBK400L610**	*10*	w/7 main brgs.
1	Main Set	**FP-MBK400L620**	*20*	w/7 main brgs.
1	Main Set	**FP-MBK400L630**	*30*	Engs. w/7 main brgs.
1	Thrust Washer Set	**FP-AR77747**	*STD*	

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R40615**	*STD*	
6	Liner w/Sealing Rings	**FP-R40615WS**	*STD*	
6	Cylinder Kit Complete	**FP-RE23160**	*STD*	w/Block marked R49470, R49650, R59850, R72128; w/Con. Rod marked R26047, R52225, R58880, R66923; From Ser. No. 335,846

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	**FP-R30939**		
6	Pin Bushing	**FP-3129YA20**		1.252" ID, 1.3785" OD, 1.510" O.A.L.
6	Pin Bushing	**FP-R42173**		1.627" ID, 1.8155" OD, 1.500" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	**FP-AR45723**	*STD*	
6	Rod Pair	**FP-AR46396**	*10*	
6	Rod Pair	**FP-AR46397**	*20*	
6	Rod Pair	**FP-AR46398**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-AR55630**	*STD*	Check piston grooving before supplying ring set; 1-1/8, 1-3/32, 1-1/4 (1 cyl. set)
6	Ring Set Single Cylinder	**FP-AR65502**	*STD*	1-1/8, 1-3/32, 1-3/16 (1 cyl. set)
6	Ring Set Single Cylinder	**FP-AR51741**	*STD*	2-5/32, 1-3/16 (1 cyl. set)
3	Premium Set	**FP-AR55630S**	*STD*	Check piston grooving before supplying ring set; 2-1/8, 2-3/32, 2-1/4 (2 cyl. set)
6	Premium Single Cylinder Set	**W-9348KX +** Std Only		Check piston grooving before supplying ring set; 1-1/8, 1-3/32, 1-1/4 (2 cyl. set); When depleted use FP-AR55630

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	**FP-404DLOHK**		w/Block marked R49470, R49650, R59850, R72128; w/Con. Rod marked R26047, R52225, R58880, R66923; From Ser. No. 335,846; Incl. Torque-To-Yield con. rod bolts

97 *Wheel Tractor* **6404D Eng.**
6.6L 404 OHV Diesel L6 (5 Main), 4.25" Bore

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-4R46903**	*STD*	
4	Cam Brg.	**FP-R46903**	*STD*	

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE22764**		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK400L4**	*STD*	Late Engs.; w/Thrust washer
1	Main Set	**FP-MBK400L410**	*10*	Late Engs.; w/Thrust washer
1	Main Set	**FP-MBK400L420**	*20*	Late Engs.; w/Thrust washer

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	**FP-3129YA20**		1.252" ID, 1.3785" OD, 1.510" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	**FP-AR45723**	*STD*	
6	Rod Pair	**FP-AR46396**	*10*	
6	Rod Pair	**FP-AR46397**	*20*	

(continued on next page)

+ Superseded Part Number

Wheel Tractor **6404D Eng.** **97**
6.6L 404 OHV Diesel L6 (5 Main), 4.25" Bore **(cont.)**

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS. (cont.)	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-AR46398	*30*	

Combine **6404A, 6404T Engs.** *Harvester* **6404A, 6404T Engs.** *Loader* **6404A, 6404T Engs.** *Wheel Tractor* **6404A, 6404T Engs.** *Excavator* **6404A, 6404T Engs.** *Skidder* **6404A, 6404T Engs.** *Compactor* **6404A, 6404T Engs.** *Feller Buncher* **6404A, 6404T Engs.** *Forage Harvester* **6404A, 6404T Engs.** **98**
6.6L 404 OHV Turbo-Diesel L6 (Aftercooled), 4.25" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R49866		Rocker cover codes 1101, 1102; From Ser. No. 67,685
1	Head Gasket	FP-R48291		
1	Head Set	FP-AR63270		

QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
6	Head Bolt	FP-R88042		w/Block marked R43310, R45980, R47020, R47110, R49470, R49650, R59850, R72128; 3.250" length
5	Head Bolt	FP-R88043		w/Block marked R43310, R45980, R47020, R47110, R49470, R49650, R59850, R72128; 5.250" length
8	Head Bolt	FP-R88044		w/Block marked R43310, R45980, R47020, R47110, R49470, R49650, R59850, R72128; 6.250" length
7	Head Bolt	FP-R88045		w/Block marked R43310, R45980, R47020, R47110, R49470, R49650, R59850, R72128; 7.250" length

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R43914	*STD*	From Ser. No. 245,547 to Ser No. 335,845; 1 groove; Chrome plated stem; 1.7500" Head Dia., .3720" Stem Dia., 6.1280" O.A.L.
6	Intake	FP-R50358	*STD*	From Ser. No. 335,846; 1 groove; 1.7150" Head Dia., .3720" Stem Dia., 6.1920" O.A.L.
6	Intake	FP-R55055	*3*	From Ser. No. 335,846; 1 groove; 1.7150" Head Dia., .3750" Stem Dia., 6.1920" O.A.L.
6	Intake	FP-R43883	*STD*	To Ser. No. 245,546; 1 groove; Chrome plated stem; 1.9020" Head Dia., .3720" Stem Dia., 6.1510" O.A.L.
6	Intake	FP-R45003	*3*	To Ser. No. 245,546; 1 groove; Chrome plated stem; 1.9020" Head Dia., .3750" Stem Dia., 6.1510" O.A.L.
6	Intake	FP-R45005	*30*	To Ser. No. 245,546; 1 groove; Chrome plated stem; 1.9020" Head Dia., .4020" Stem Dia., 6.1510" O.A.L.
6	Exhaust	FP-R50357	*STD*	From Ser. No. 335,846; 1 groove; Chrome plated stem; 1.7150" Head Dia., .3720" Stem Dia., 6.2080" O.A.L.
6	Exhaust	FP-R43679	*STD*	To Ser. No. 335,845; 1 groove; Chrome plated stem; 1.7150" Head Dia., .3720" Stem Dia., 6.1330" O.A.L.
6	Exhaust	FP-R43787	*3*	To Ser. No. 335,845; 1 groove; Chrome plated stem; 1.7150" Head Dia., .3750" Stem Dia., 6.1330" O.A.L.
6	Exhaust	FP-R43788	*15*	To Ser. No. 335,845; 1 groove; Chrome plated stem; 1.7150" Head Dia., .3870" Stem Dia., 6.1330" O.A.L.
6	Exhaust	FP-R43789	*30*	To Ser. No. 335,845; 1 groove; Chrome plated stem; 1.7150" Head Dia., .4020" Stem Dia., 6.1330" O.A.L.
24	Keeper	FP-41339		1 groove; Square cut key groove
24	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R50356	*STD*	From Ser. No. 335,846
6	Exh.	FP-R55061	*10*	From Ser. No. 335,846
6	Exh.	FP-R43681	*STD*	Models 5200, 7200 To Eng. Ser. No. 335,845; Models 4320, 4620; 1.7555" OD, 1.5000" ID, .2480" Depth
6	Int.	FP-R78702	*STD*	From Ser. No. 245,757; 1.7550" OD, 1.5000" ID, .2160" Depth
6	Int.	FP-R82508	*10*	From Ser. No. 245,757; 1.7650" OD, 1.5000" ID, .2160" Depth
6	Int.	FP-R43680	*STD*	To Ser. No. 245,756

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-RE11410		Exh.; From Ser. No. 215,000
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover code 1101

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor code 3004

(continued on next page)

98 (cont.) *Combine* **6404A, 6404T Engs.** *Harvester* **6404A, 6404T Engs.** *Loader* **6404A, 6404T Engs.** *Wheel Tractor* **6404A, 6404T Engs.** *Excavator* **6404A, 6404T Engs.** *Skidder* **6404A, 6404T Engs.** *Compactor* **6404A, 6404T Engs.** *Feller Buncher* **6404A, 6404T Engs.** *Forage Harvester* **6404A, 6404T Engs.**
6.6L 404 OHV Turbo-Diesel L6 (Aftercooled), 4.25" Bore

ELECTRICAL (cont.)

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Delco-Remy; 12 Volt alternator
1	Ball Brg.	FP-JD9449		Front; Motorola; 12 Volt, 35 amp alternator; 72 amp alternator; To Ser. No. 357,083

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	Speed/Hour Meter Gasket	FP-R62410		To Ser. No. 357,083

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	FP-R83021		One Exh. hole
2	Exhaust Manifold Gasket	FP-R83020		Two Exh. holes
3	Intake Manifold Gasket	FP-R50397		Two Int. holes
3	Intake Manifold Gasket	FP-R130573		6404A Engs.; To Ser. No. 357,083

QTY	AIR INTAKE	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R50406		Manifold coupling; 6404A Engs.; Small end; From Ser. No. 357,084
1	O-Ring	FP-R50406		Manifold coupling; 6404T Engs.; Small end; From Ser. No. 512,306

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	FP-R26058		
1	Timing Gear Cover Gasket	FP-R50390		Access cover
1	Timing Gear Cover Gasket	FP-R50353		From Ser. No. 357,084
1	Timing Gear Cover Gasket	FP-R47047		To Ser. No. 357,083

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft	FP-R71529		w/Camshaft marked R64086, R77259
1	Camshaft	FP-R71530		6404T Engs.; From Ser. No. 335,846
1	Camshaft Plug	FP-R26115		
12	Lifter	FP-R52773		
1	Prelube	55-400		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

QTY	CAMSHAFT KIT	PART NO.	SIZE	DESCRIPTION
1	Cam/Lifter Kit	FP-AR100385		w/Camshaft marked R64086, R77259; Incl. (12) FP-R52773, (1) FP-R71529

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
12	Washer	FP-R48693		Inj. leak-off screw; w/Bosch nozzle; To Ser. No. 445,569
6	Washer	FP-R64840		Injector nozzle; From Ser. No. 445,570; Steel
21	Clamp	FP-R34766		Pump codes 1601, 1604; From Ser. No. 445,570
6	Fuel Line Connector Gasket	FP-R59294		Leak-off connector washer; From Ser. No. 445,570; Aftercooled; Alum.
1	Washer Type Seal	FP-R51936		To Ser. No. 445,569

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
6	O-Ring	FP-R51603		Fuel nozzle; Injector nozzle codes 1601, 1604; From Ser. No. 445,570
1	O-Ring	FP-R375R		Fuel check valve; From Ser. No. 424,132

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Mounting Gasket	FP-R43751		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R50411		w/Pump housing marked R50408
1	Water Pump Repair/Rebuild Kit	FP-925750411		w/Pump housing marked R50408
1	Water Pump Repair/Rebuild Kit	FP-935550411		w/Pump housing marked R54955
1	Water Pump Housing Gasket	FP-R50410		w/Pump housing marked R50408
1	Water Pump Housing Gasket	FP-R42404		To Ser. No. 335,845
1	Water Pump Plate Gasket	FP-R43117		w/Pump housing marked R42402, R43114, R46561; To Ser. No. 357,083
2	Water Pump Spacer Gasket	FP-R42406		w/Pump housing marked R42402, R43114, R46561, R50408
1	Shaft & Bearing Assembly	FP-JD9257		w/Pump housing marked R42402, R43114, R46561, R50408
1	Shaft & Bearing Assembly	FP-JD9355		w/Pump housing marked R54955; From Ser. No. 335,846

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Combine **6404A, 6404T Engs.** *Harvester* **6404A, 6404T Engs.** *Loader* **6404A, 6404T Engs.** *Wheel Tractor* **6404A, 6404T Engs.** *Excavator* **6404A, 6404T Engs.** *Skidder* **6404A, 6404T Engs.** *Compactor* **6404A, 6404T Engs.** *Feller Buncher* **6404A, 6404T Engs.** *Forage Harvester* **6404A, 6404T Engs.**

98 (cont.)

6.6L 404 OHV Turbo-Diesel L6 (Aftercooled), 4.25" Bore

COOLING SYSTEM (cont.)

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		From Ser. No. 357,084; 180 Deg.
1	Thermostat Cover Gasket	FP-R46479		To Ser. No. 357,083; Two hole

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	FP-R88397		
1	Cyl. Block Water Hole Cvr Gsk	FP-R43595		Cyl. head water opening cover gskt.

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R71918		
1	Oil Pan Gasket	FP-R49377		From Ser. No. 357,084
1	Cylinder Cover Gasket	FP-R45968		To Ser. No. 357,083

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG404TAS		
1	Complete Overhaul Gasket Set	FP-AR63269		From Ser. No. 335,846; Crankshaft oil seals not incl.
1	Complete Overhaul Gasket Set	FP-AR53094		To Ser. No. 335,845; Crankshaft oil seals not incl.
1	Complete Overhaul Gasket Set	FP-AR63269WS		6404A Engs.; From Ser. No. 335,846; Incl. Crankshaft oil seals; Rear main brg. seal incl.; Wear sleeve; Timing cover seal and wear sleeve not incl.
1	Complete Overhaul Gasket Set	FP-AR53094WS		6404A Engs.; To Ser. No. 335,845; Incl. Crankshaft oil seals; Rear main brg. seal incl.; Wear sleeve; Timing cover seal and wear sleeve not incl.
1	Kit Gasket Set	260-1398		6404A Engs.; Compl.; Rear main brg. seal incl.; Wear sleeve incl.; Timing cover seal and wear sleeve incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-4R46903	*STD*	
6	Cam Brg.	FP-R46903	*STD*	

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket Set	FP-404A		6404A Engs.; To Ser. No. 357,083
2	Aftercooler Intake Gasket	FP-R47394		6404A Engs.; To Ser. No. 357,083
1	Oil Cooler	FP-AT25038		w/13 plate
1	Oil Cooler	FP-AR55394		w/8 plate
1	Oil Cooler Installation Kit	FP-58952		From Ser. No. 357,084
2	Oil Cooler Gasket	FP-R27948		To Ser. No. 357,083
2	O-Ring	FP-R52811		Intercooler inlet & outlet tube seals
4	O-Ring	FP-R51203		Oil cooler inlet & outlet seals; To Ser. No. 357,083
1	Oil Cooler Cover Gasket	FP-R50419		

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-RE53422		Gears incl.
1	Crankshaft	FP-AR96189		Gears not incl.
1	Oil Seal Kit	FP-SK49025		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-AR49025		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE22764		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK400L4	*STD*	w/5 main brgs.
1	Main Set	FP-MBK400L410	*10*	w/5 main brgs.
1	Main Set	FP-MBK400L420	*20*	w/5 main brgs.
1	Main Set	FP-MBK400L6	*STD*	w/7 main brgs.
1	Main Set	FP-MBK400L610	*10*	w/7 main brgs.
1	Main Set	FP-MBK400L620	*20*	w/7 main brgs.
1	Main Set	FP-MBK400L630	*30*	w/7 main brgs.
6	Plain Main Brg.	FP-AR74814	*STD*	From Ser. No. 215,000
6	Plain Main Brg.	FP-AR74816	*10*	From Ser. No. 215,000
6	Plain Main Brg.	FP-AR74817	*20*	From Ser. No. 215,000
6	Plain Main Brg.	FP-AR74818	*30*	From Ser. No. 215,000
1	Flanged Main Brg.	FP-AR77748	*STD*	
1	Flanged Main Brg.	FP-AR77750	*10*	
1	Flanged Main Brg.	FP-AR77751	*20*	
1	Flanged Main Brg.	FP-AR77752	*30*	
1	Thrust Washer Set	FP-AR77747	*STD*	

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98 (cont.) *Combine* **6404A, 6404T Engs.** *Harvester* **6404A, 6404T Engs.** *Loader* **6404A, 6404T Engs.** *Wheel Tractor* **6404A, 6404T Engs.** *Excavator* **6404A, 6404T Engs.** *Skidder* **6404A, 6404T Engs.** *Compactor* **6404A, 6404T Engs.** *Feller Buncher* **6404A, 6404T Engs.** *Forage Harvester* **6404A, 6404T Engs.**
6.6L 404 OHV Turbo-Diesel L6 (Aftercooled), 4.25" Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump Spring	**FP-R26151**		
1	O-Ring	**FP-R50405**		Intake coupling; Large end
1	O-Ring	**FP-R59343**		Ventilator tube; Rocker cover codes 1101, 1102; Can be used in place of FP-R495R; Grooved
1	O-Ring	**FP-R495R**		Ventilator tube; Rocker cover codes 1101, 1102; Can be used in place of FP-R59343; Smooth
1	Oil Pump Cover Gasket	**FP-R52049**		Int. gskt.
1	Rect. or Square Seal	**FP-R43660**		Filter to housing
1	Oil Filter to Block Gasket	**FP-R43774**		w/Filter body marked R46424, R54561, R59483, R62110

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R40615**	*STD*	
6	Liner w/Sealing Rings	**FP-R40615WS**	*STD*	
6	Cylinder Kit Complete	**FP-AR51798**	*STD*	w/Block marked R43310, R45980, R47020, R47110; w/Con. Rod R41423, R58882, R66922; To Ser. No. 335,845
6	Cylinder Kit Complete	**FP-AR63272**	*STD*	w/Block marked R49470, R49650, R59850, R72128; w/Con. Rod marked R41423, R58882, R66922; From Ser. No. 335,846
6	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		
6	Sealing Ring, Liner	**FP-112847**		
6	Sealing Ring, Liner	**FP-R48767**		Rectangle; Top
6	Sealing Ring, Liner	**FP-R26121**		Round; Middle
6	Sealing Ring	**FP-SLR2378**		Rectangle
6	Sealing Ring	**FP-SLR2520**		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-AR54552**		Model 7020 From Ser. No. 335,846
6	Piston Body w/o Pin	**FP-AR50624**		Model 7020 To Ser. No. 335,845
6	Piston Body w/o Pin	**FP-AR50624**		Models 4320, 4520 & 4620
6	Piston Body w/o Pin	**FP-AR54552**		Models 4430, 4630
6	Piston Body w/o Pin	**FP-AR54552**		Models 6602, 7700
6	Piston Kit w/Pin & Retainers	**FP-AR54552WP**	*STD*	Model 7020 From Ser. No. 335,846
6	Piston Kit w/Pin & Retainers	**FP-AR50624WP**	*STD*	Model 7020 To Ser. No. 335,845
6	Piston Kit w/Pin & Retainers	**FP-AR50624WP**	*STD*	Models 4320, 4520 & 4620
6	Piston Kit w/Pin & Retainers	**FP-AR54552WP**	*STD*	Models 4430, 4630; Model 7020 From Ser. No. 335,846; Models 6602, 7700
6	Piston Kit w/Pin & Retainers	**FP-AR54552WP**	*STD*	Models 6602, 7700
6	Pin	**FP-R41425**		
12	Piston Pin Retainer	**FP-R54114**		From Ser. No. 335,846; For 1.62" pin dia.
12	Piston Pin Retainer	**FP-R41426**		To Ser. No. 335,845
6	Pin Bushing	**FP-R42173**		w/Con. Rod marked R41423, R58882, R66922; 1.627" ID, 1.8155" OD, 1.500" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R66452**		Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	**FP-AR45723**	*STD*	
6	Rod Pair	**FP-AR73277**	*STD*	
6	Rod Pair	**FP-AR46396**	*10*	
6	Rod Pair	**FP-AR73279**	*10*	
6	Rod Pair	**FP-AR46397**	*20*	
6	Rod Pair	**FP-AR73280**	*20*	
6	Rod Pair	**FP-AR46398**	*30*	
6	Rod Pair	**FP-AR73281**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-AR55630**	*STD*	Check piston grooving before supplying ring set; 1-1/8, 1-3/32, 1-1/4 (1 cyl. set)
6	Ring Set Single Cylinder	**FP-AR65502**	*STD*	1-1/8, 1-3/32, 1-3/16 (1 cyl. set)
6	Ring Set Single Cylinder	**FP-AR51741**	*STD*	2-5/32, 1-3/16 (1 cyl. set)
3	Premium Set	**FP-AR55630S**	*STD*	Check piston grooving before supplying ring set; 2-1/8, 2-3/32, 2-1/4 (2 cyl. set)
6	Premium Single Cylinder Set	**W-9348KX +** Std Only		Check piston grooving before supplying ring set; 1-1/8, 1-3/32, 1-1/4 (2 cyl. set); When depleted use FP-AR55630

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+ Superseded Part Number

Combine **6404A, 6404T Engs.** *Harvester* **6404A, 6404T Engs.** *Loader* **6404A, 6404T Engs.** *Wheel Tractor* **6404A, 6404T Engs.** *Excavator* **6404A, 6404T Engs.** *Skidder* **6404A, 6404T Engs.** *Compactor* **6404A, 6404T Engs.** *Feller Buncher* **6404A, 6404T Engs.** *Forage Harvester* **6404A, 6404T Engs.** **98** **(cont.)**

6.6L 404 OHV Turbo-Diesel L6 (Aftercooled), 4.25" Bore

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-404TAEIFK**		w/Block marked R43310, R45980, R47020, R47110; w/Con. Rod marked R41423, R58882, R66922; To Ser. No. 335,845; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-404TALIFK**		w/Block marked R49470, R49650, R59850, R72128; w/Con. Rod marked R41423, R58882, R66922; From Ser. No. 335,846; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-404TAEOHK**		w/Block marked R43310, R45980, R47020, R47110; w/Con. Rod marked R41423, R58882, R66922; To Ser. No. 335,845; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-404TALOHK**		w/Block marked R49470, R49650, R59850, R72128; w/Con. Rod marked R41423, R58882, R66922; From Ser. No. 335,846; Incl. Torque-To-Yield con. rod bolts

Wheel Tractor **6404T Eng.** **99**

6.6L 404 OHV Turbo-Diesel L6 (Early), 4.25" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R49866**		Rocker cover codes 1101, 1102; From Ser. No. 67,685
1	Head Gasket	**FP-R48291**		
1	Head Set	**FP-AR63270**		

QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
6	Head Bolt	**FP-R88042**		w/Block marked R43310, R45980, R47020, R47110, R49470, R49650, R59850, R72128; 3.250" length
5	Head Bolt	**FP-R88043**		w/Block marked R43310, R45980, R47020, R47110, R49470, R49650, R59850, R72128; 5.250" length
8	Head Bolt	**FP-R88044**		w/Block marked R43310, R45980, R47020, R47110, R49470, R49650, R59850, R72128; 6.250" length
7	Head Bolt	**FP-R88045**		w/Block marked R43310, R45980, R47020, R47110, R49470, R49650, R59850, R72128; 7.250" length

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-R43914**	*STD*	From Ser. No. 245,547 to Ser No. 335,845; 1 groove; Chrome plated stem; 1.7500" Head Dia., .3720" Stem Dia., 6.1280" O.A.L.
6	Intake	**FP-R50358**	*STD*	From Ser. No. 335,846; 1 groove; 1.7150" Head Dia., .3720" Stem Dia., 6.1920" O.A.L.
6	Intake	**FP-R55055**	*3*	From Ser. No. 335,846; 1 groove; 1.7150" Head Dia., .3750" Stem Dia., 6.1920" O.A.L.
6	Intake	**FP-R43883**	*STD*	To Ser. No. 245,546; 1 groove; Chrome plated stem; 1.9020" Head Dia., .3720" Stem Dia., 6.1510" O.A.L.
6	Intake	**FP-R45003**	*3*	To Ser. No. 245,546; 1 groove; Chrome plated stem; 1.9020" Head Dia., .3750" Stem Dia., 6.1510" O.A.L.
6	Intake	**FP-R45005**	*30*	To Ser. No. 245,546; 1 groove; Chrome plated stem; 1.9020" Head Dia., .4020" Stem Dia., 6.1510" O.A.L.
6	Exhaust	**FP-R50357**	*STD*	From Ser. No. 335,846; 1 groove; Chrome plated stem; 1.7150" Head Dia., .3720" Stem Dia., 6.2080" O.A.L.
6	Exhaust	**FP-R43679**	*STD*	To Ser. No. 335,845; 1 groove; Chrome plated stem; 1.7150" Head Dia., .3720" Stem Dia., 6.1330" O.A.L.
6	Exhaust	**FP-R43787**	*3*	To Ser. No. 335,845; 1 groove; Chrome plated stem; 1.7150" Head Dia., .3750" Stem Dia., 6.1330" O.A.L.
6	Exhaust	**FP-R43788**	*15*	To Ser. No. 335,845; 1 groove; Chrome plated stem; 1.7150" Head Dia., .3870" Stem Dia., 6.1330" O.A.L.
6	Exhaust	**FP-R43789**	*30*	To Ser. No. 335,845; 1 groove; Chrome plated stem; 1.7150" Head Dia., .4020" Stem Dia., 6.1330" O.A.L.
24	Keeper	**FP-41339**		1 groove; Square cut key groove
24	Keeper	**FP-T20077**		1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	**VK-138B**		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	**FP-R50356**	*STD*	From Ser. No. 335,846
6	Exh.	**FP-R55061**	*10*	From Ser. No. 335,846
6	Exh.	**FP-R43681**	*STD*	Models 5200, 7200 To Eng. Ser. No. 335,845; Models 4320, 4620; 1.7555" OD, 1.5000" ID, .2480" Depth
6	Int.	**FP-R78702**	*STD*	From Ser. No. 245,757; 1.7550" OD, 1.5000" ID, .2160" Depth
6	Int.	**FP-R82508**	*10*	From Ser. No. 245,757; 1.7650" OD, 1.5000" ID, .2160" Depth
6	Int.	**FP-R43680**	*STD*	To Ser. No. 245,756

(continued on next page)

99 *Wheel Tractor* 6404T Eng.
(cont.) 6.6L 404 OHV Turbo-Diesel L6 (Early), 4.25" Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-RE11410		Exh.; From Ser. No. 215,000
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover code 1101

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor code 3004

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	Speed/Hour Meter Gasket	FP-R62410		To Ser. No. 357,083

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	FP-R83021		One Exh. hole
2	Exhaust Manifold Gasket	FP-R83020		Two Exh. holes
3	Intake Manifold Gasket	FP-R130573		To Ser. No. 357,083
3	Intake Manifold Gasket	FP-R50397		Two Int. holes

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	FP-R26058		
1	Timing Gear Cover Gasket	FP-R50390		Access cover
1	Timing Gear Cover Gasket	FP-R50353		From Ser. No. 357,084
1	Timing Gear Cover Gasket	FP-R47047		To Ser. No. 357,083

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft	FP-R71529		
1	Camshaft	FP-R71530		From. Ser. No. 335,846
1	Camshaft Plug	FP-R26115		
12	Lifter	FP-R52773		
1	Prelube	55-400		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

QTY	CAMSHAFT KIT	PART NO.	SIZE	DESCRIPTION
1	Cam/Lifter Kit	FP-AR100385		Incl. (12) FP-R52773, (1) FP-R71529

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
12	Washer	FP-R48693		Inj. leak-off screw; w/Bosch nozzle; To Ser. No. 445,569
6	Washer	FP-R64840		Injector nozzle; From Ser. No. 445,570; Steel
21	Clamp	FP-R34766		Pump codes 1601, 1604; From Ser. No. 445,570
6	Fuel Line Connector Gasket	FP-R59294		Leak-off connector washer; From Ser. No. 445,570; Aftercooled; Alum.
1	Washer Type Seal	FP-R51936		To Ser. No. 445,569

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
6	O-Ring	FP-R51603		Fuel nozzle; Injector nozzle codes 1601, 1604; w/Bosch injector; To Ser. No. 445,569
6	O-Ring	FP-R51603		Fuel nozzle; Injector nozzle codes 1601, 1604; From Ser. No. 445,570
1	O-Ring	FP-R375R		Fuel check valve; From Ser. No. 424,132

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Mounting Gasket	FP-R43751		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R50411		w/Pump housing marked R50408
1	Water Pump Repair/Rebuild Kit	FP-925750411		w/Pump housing marked R50408
1	Water Pump Repair/Rebuild Kit	FP-935550411		w/Pump housing marked R54955
1	Water Pump Housing Gasket	FP-R50410		w/Pump housing marked R50408
1	Water Pump Housing Gasket	FP-R42404		To Ser. No. 335,845
1	Water Pump Plate Gasket	FP-R43117		w/Pump housing marked R42402, R43114, R46561; To Ser. No. 357,083
2	Water Pump Spacer Gasket	FP-R42406		w/Pump housing marked R42402, R43114, R46561, R50408
1	Shaft & Bearing Assembly	FP-JD9257		w/Pump housing marked R42402, R43114, R46561, R50408
1	Shaft & Bearing Assembly	FP-JD9355		w/Pump housing marked R54955; From Ser. No. 335,846

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		180 Deg.
1	Thermostat Cover Gasket	FP-R46479		Two hole

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COOLING SYSTEM (cont.)

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	FP-R88397		
1	Cyl. Block Water Hole Cvr Gsk	FP-R43595		Cyl. head water opening cover gskt.

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R71918		
1	Oil Pan Gasket	FP-R49377		From Ser. No. 357,084
1	Cylinder Cover Gasket	FP-R45968		To Ser. No. 357,083

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG404TAS		
1	Complete Overhaul Gasket Set	FP-AR63269		From Ser. No. 335,846; Crankshaft oil seals not incl.
1	Complete Overhaul Gasket Set	FP-AR63269WS		From Ser. No. 335,846; Incl. Crankshaft oil seals; Rear main brg. seal incl.; Wear sleeve; Timing cover seal and wear sleeve not incl.
1	Complete Overhaul Gasket Set	FP-AR53094		To Ser. No. 335,845; Crankshaft oil seals not incl.
1	Complete Overhaul Gasket Set	FP-AR53094WS		To Ser. No. 335,845; Incl. Crankshaft oil seals; Rear main brg. seal incl.; Wear sleeve; Timing cover seal and wear sleeve not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-4R46903	*STD*	
6	Cam Brg.	FP-R46903	*STD*	

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket Set	FP-404A		To Ser. No. 357,083
2	Aftercooler Intake Gasket	FP-R47394		To Ser. No. 357,083
2	Oil Cooler Gasket	FP-R27948		To Ser. No. 357,083
1	Oil Cooler Cover Gasket	FP-R50419		

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-RE53422		Gears incl.
1	Crankshaft	FP-AR96189		Gears not incl.
1	Oil Seal Kit	FP-SK49025		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-AR49025		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE22764		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK400L6	*STD*	w/7 main brgs.
1	Main Set	FP-MBK400L610	*10*	w/7 main brgs.
1	Main Set	FP-MBK400L620	*20*	w/7 main brgs.
1	Main Set	FP-MBK400L630	*30*	w/7 main brgs.
1	Main Set	FP-MBK400L4	*STD*	From Ser. No. 215,000; w/5 main brgs.
1	Main Set	FP-MBK400L410	*10*	From Ser. No. 215,000; w/5 main brgs.
1	Main Set	FP-MBK400L420	*20*	From Ser. No. 215,000; w/5 main brgs.
6	Plain Main Brg.	FP-AR74814	*STD*	From Ser. No. 215,000
6	Plain Main Brg.	FP-AR74816	*10*	From Ser. No. 215,000
6	Plain Main Brg.	FP-AR74817	*20*	From Ser. No. 215,000
6	Plain Main Brg.	FP-AR74818	*30*	From Ser. No. 215,000
1	Flanged Main Brg.	FP-AR77748	*STD*	
1	Flanged Main Brg.	FP-AR77750	*10*	
1	Flanged Main Brg.	FP-AR77751	*20*	
1	Flanged Main Brg.	FP-AR77752	*30*	
1	Thrust Washer Set	FP-AR77747	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R50405		Intake coupling; Large end
1	O-Ring	FP-R59343		Ventilator tube; Rocker cover codes 1101, 1102; Can be used in place of FP-R495R; Grooved
1	O-Ring	FP-R495R		Ventilator tube; Rocker cover codes 1101, 1102; Can be used in place of FP-R59343; Smooth
1	Oil Pump Cover Gasket	FP-R52049		Int. gskt.
1	Rect. or Square Seal	FP-R43660		Filter to housing
1	Oil Filter to Block Gasket	FP-R43774		w/Filter body marked R46424, R54561, R59483, R62110

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R40615	*STD*	
6	Liner w/Sealing Rings	FP-R40615WS	*STD*	

(continued on next page)

99 *Wheel Tractor* 6404T Eng. (cont.)
6.6L 404 OHV Turbo-Diesel L6 (Early), 4.25" Bore

CYLINDER COMPONENTS (cont.)

QTY	LINERS (cont.)	PART NO.	SIZE	DESCRIPTION
6	Cylinder Kit Complete	**FP-AR51798**	*STD*	w/Block marked R43310, R45980, R47020, R47110; w/Con. Rod R41423, R58882, R66922; To Ser. No. 335,845
6	Cylinder Kit Complete	**FP-AR63272**	*STD*	w/Block marked R49470, R49650, R59850, R72128; w/Con. Rod marked R41423, R58882, R66922; From Ser. No. 335,846
6	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		
6	Sealing Ring, Liner	**FP-112847**		
6	Sealing Ring, Liner	**FP-R48767**		Rectangle; Top
6	Sealing Ring, Liner	**FP-R26121**		Round; Middle
6	Sealing Ring	**FP-SLR2378**		Rectangle
6	Sealing Ring	**FP-SLR2520**		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-AR54552**		From Ser. No. 335,846
6	Piston Body w/o Pin	**FP-AR50624**		To Ser. No. 335,845
6	Piston Kit w/Pin & Retainers	**FP-AR54552WP**	*STD*	From Ser. No. 335,846
6	Piston Kit w/Pin & Retainers	**FP-AR50624WP**	*STD*	To Ser. No. 335,845
6	Pin	**FP-R41425**		
12	Piston Pin Retainer	**FP-R54114**		From Ser. No. 335,846; For 1.62" pin dia.
12	Piston Pin Retainer	**FP-R41426**		To Ser. No. 335,845
6	Pin Bushing	**FP-R42173**		w/Con. Rod marked R41423, R58882, R66922; 1.627" ID, 1.8155" OD, 1.500" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R66452**		Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	**FP-AR45723**	*STD*	
6	Rod Pair	**FP-AR73277**	*STD*	
6	Rod Pair	**FP-AR46396**	*10*	
6	Rod Pair	**FP-AR73279**	*10*	
6	Rod Pair	**FP-AR46397**	*20*	
6	Rod Pair	**FP-AR73280**	*20*	
6	Rod Pair	**FP-AR46398**	*30*	
6	Rod Pair	**FP-AR73281**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-AR55630**	*STD*	Check piston grooving before supplying ring set; 1-1/8, 1-3/32, 1-1/4 (1 cyl. set)
6	Ring Set Single Cylinder	**FP-AR65502**	*STD*	1-1/8, 1-3/32, 1-3/16 (1 cyl. set)
3	Premium Set	**FP-AR55630S**	*STD*	Check piston grooving before supplying ring set; 2-1/8, 2-3/32, 2-1/4 (2 cyl. set)
6	Premium Single Cylinder Set	**W-9348KX +** Std Only		Check piston grooving before supplying ring set; 1-1/8, 1-3/32, 1-1/4 (2 cyl. set); When depleted use FP-AR55630

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-404TAEIFK**		w/Block marked R43310, R45980, R47020, R47110; w/Con. Rod marked R41423, R58882, R66922; To Ser. No. 335,845; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-404TALIFK**		w/Block marked R49470, R49650, R59850, R72128; w/Con. Rod marked R41423, R58882, R66922; From Ser. No. 335,846; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-404TAEOHK**		w/Block marked R43310, R45980, R47020, R47110; w/Con. Rod marked R41423, R58882, R66922; To Ser. No. 335,845; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-404TALOHK**		w/Block marked R49470, R49650, R59850, R72128; w/Con. Rod marked R41423, R58882, R66922; From Ser. No. 335,846; Incl. Torque-To-Yield con. rod bolts

100 *Wheel Tractor* 70 Eng.
6.8L 413 OHV L2, 6.125" Bore

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
2	Cone Taper Brg.	**FP-JD8135**		Position 1-2
2	Cup Taper Brg.	**FP-JD7438**		Position 1-2

CYLINDER COMPONENTS

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	**FP-2155SB**	*STD*	

+ Superseded Part Number

Power Unit **6068HN PowerTech Eng. (Natural Gas).** *Wheel Tractor* **6068HN PowerTech Eng. (Natural Gas).** **101**

6.8L 413.8 (6784cc) OHV Turbo-NG L6 (PowerTech 2V IC), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123543		
1	Head Gasket	FP-R116516		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
24	Keeper	FP-R91889		Head & valve code 5113

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		Head & valve code 5113; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE60005		Exh. & Int.; Head & valve code 5113

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-R90658		Exh. manifold, shield code 2817

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Filter	FP-R98527		Water pump code 4404; Pump marked R500401

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-AR72852		Thermostat code 2203; 192 Deg.
1	O-Ring	FP-R26286		Sensor seal; Thermostat codes 2108, 2203

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R123354		
2	O-Ring	FP-U13639		Block coolant drain plug seal; Block code 4604; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		Block code 4604

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE65165	*STD*	Crankshaft and Bearing code 4702; w/Crankshaft marked R116076
6	Plain Main Brg.	FP-RE65911	*.25MM*	Crankshaft and Bearing code 4702; w/Crankshaft marked R116076
1	Flanged Main Brg.	FP-RE65168	*STD*	Crankshaft and Bearing code 4702; w/Crankshaft marked R116076
1	Flanged Main Brg.	FP-RE65912	*.25MM*	Crankshaft and Bearing code 4702; w/Crankshaft marked R116076

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R61871		Oil pump code 5001; Oil pump inlet seal
1	O-Ring	FP-R72328		Vent tube elbow seal; Rocker arm cover code 1104

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR65507		Piston & rod bearing code 4811

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R123177		Piston & rod bearing code 4811; 1.62" pin dia.
12	Piston Pin Retainer	FP-R54114		Piston & rod bearing code 4811; For 1.62" pin dia.
6	Pin Bushing	FP-R114082		Use w/Con. Rod marked R500335
6	Piston Pin Kit	FP-RE63915		Piston & rod bearing code 4811; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R501124		Use w/Con. Rod marked R500335
6	Rod Pair	FP-RE65908	*STD*	Piston & rod bearing code 4811
6	Rod Pair	FP-RE65909	*.25MM*	Piston & Rod bearing code 4811

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE507852	*STD*	Piston & rod bearing code 4811; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	FP-RE66820	*STD*	Piston & rod bearing code 4811; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

102 *Combine* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Grader* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Power Unit* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Wheel Tractor* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Windrower* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Crawler Tractor* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Loader Tractor* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Forestry Tractor* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Excavator* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Backhoe* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Sprayer* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Integrated Tool Carrier* **6068H PowerTech Eng. (2-Valve Cyl. Head).**
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 2V IC), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R123543**		
1	Head Gasket	**FP-R116516**		
1	Head Set	**FP-RE66083**		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-R98062**	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
6	Intake	**FP-R97490**	*15*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
6	Exhaust	**FP-R90692**	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
6	Exhaust	**FP-R97492**	*15*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
24	Keeper	**FP-R91889**		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	**FP-R85687**	*STD*	
6	Int.	**FP-R98335**		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
6	Int.	**FP-R98063**	*STD*	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	**FP-R26125**		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	**FP-RE60005**		Exh. & Int.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	**FP-RE31617**		Exh. & Int.; From Ser. No. 300,000; Positive type
12	Valve Stem Seal	**FP-R87627**		Exh. & Int.; O-Ring type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	**FP-R53108**		3-Hole mount; Starting motor codes 3003, 3006, 3010, 3011, 3013, 3025, 3026

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Nozzle	**FP-RE48786**		
6	Fuel Injector Seal	**FP-R92352**		Upper packing
6	Washer Type Seal	**FP-R48000**		Lower packing
12	Washer Type Seal	**FP-R51936**		Fuel line; Line codes 1613, 1614, 1615, 1619, 1621, 1622, 1623, 1668, 1678, 1680, 1681, 1685, 1686, 1688, 1697, 160D; To Ser. No. 715,739
12	Washer Type Seal	**FP-R51936**		Fuel line; Line codes 1619, 1681, 1685, 1686, 1696, 1697, 16CM, 16CN, 16CP, 16CW, 16CX, 16CY, 16DY, 16LS, 16LT, 16LU, 16MG, 16MH, 16ML, 16MM

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	**FP-RE500737 ***		Standard flow
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked R500734, RE70683, RE70985; High Flow

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	**FP-R123354**		
2	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R119874**		

(continued on next page)

* New Item — Check For Availability

Combine **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Grader* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Power Unit* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Wheel Tractor* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Windrower* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Crawler Tractor* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Loader Tractor* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Forestry Tractor* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Excavator* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Backhoe* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Sprayer* **6068H PowerTech Eng. (2-Valve Cyl. Head).** *Integrated Tool Carrier* **6068H PowerTech Eng. (2-Valve Cyl. Head).**

102 (cont.)

6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 2V IC), 106mm Bore

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	**FP-RE65165**	*STD*	Crankshaft and Bearing codes 4702, 4703
6	Plain Main Brg.	**FP-RE65911**	*.25MM*	Crankshaft and Bearing codes 4702, 4703
1	Flanged Main Brg.	**FP-RE65168**	*STD*	Crankshaft and Bearing codes 4702, 4703
1	Flanged Main Brg.	**FP-RE65912**	*.25MM*	Crankshaft and Bearing codes 4702, 4703

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil tube from pump to block

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R121867**	*STD*	
6	Liner w/Sealing Rings	**FP-RE500024**	*STD*	
6	Cylinder Kit Complete	**FP-RE507920**	*STD*	Con. Rod, Bearing & Piston codes 4807
6	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-RE55512**	*STD*	Con. Rod Bearing & Piston code 4810
6	Piston Body w/o Pin	**FP-RE505100**	*STD*	Con. Rod, Bearing & Piston codes 4807
6	Pin	**FP-R123178**		Con. Rod, Bearing & Piston code 4807; 1.375" pin dia.
6	Pin	**FP-R123177**		Con. Rod, Bearing & Piston codes 4810; 1.62" pin dia.
12	Piston Pin Retainer	**FP-M41029**		Con. Rod, Bearing & Piston codes 4805, 4807; For 1.38" pin dia.
12	Piston Pin Retainer	**FP-R54114**		Con. Rod, Bearing & Piston codes 4810; For 1.62" pin dia.
6	Pin Bushing	**FP-R114082**		Con. Rod, Bearing & Piston code 4810; w/Con. Rod marked R500335
6	Pin Bushing	**FP-R123960**		Con. Rod, Bearing & Piston codes 4807, 4810; 1.375" pin dia.
6	Piston Pin Kit	**FP-RE63915**		Con. Rod, Bearing & Piston codes 4810; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R114083**		Cyl. Liner code 4807; w/Con. Rod marked R123959; To Ser. No. 794,054
12	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4807; w/Con. Rod marked R500000; From Ser. No. 794,055
12	Con. Rod Bolt	**FP-R114083**		Cyl. Liner code 4810; w/Con. Rod marked R500335
12	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4810; w/Con. Rod marked R500335
12	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4810; w/Con. Rod marked R500335; From Ser. No. 794,055
12	Con. Rod Bolt	**FP-R114083**		Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335; From Ser. No. 794,055
6	Rod Pair	**FP-RE65908**	*STD*	Cyl. Liner code 4810; w/Con. Rod marked R500335
6	Rod Pair	**FP-RE65909**	*.25MM*	Cyl. Liner code 4810; w/Con. Rod marked R500335
6	Rod Pair	**FP-RE65908**	*STD*	Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335
6	Rod Pair	**FP-RE65909**	*.25MM*	Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-RE66271**	*STD*	Piston & Liner code 4807
6	Ring Set Single Cylinder	**FP-RE507852**	*STD*	Piston & Liner code 4810; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	**FP-RE66820**	*STD*	Piston & Liner code 4810; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-IFKPT6068**		Con. Rod, Bearing & Piston codes 4807

103 *Combine* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Cotton Picker* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Harvester* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Grader* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Power Unit* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Wheel Tractor* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Loader Tractor* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Excavator* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Sprayer* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Logger* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Feller Buncher* **6068H PowerTech Eng. (4-Valve Cyl. Head).**
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 4V IC), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R123543**		
1	Head Gasket	**FP-R116516**		
1	Head Set	**FP-RE66083**		

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	**FP-R53108**		3-Hole mount; Starting motor codes 3003, 3006, 3010, 3011, 3013, 3025, 3026

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	**FP-RE500737 ***		Standard flow
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked RE70683, RE70985
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked R500734; High Flow

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	**FP-R123354**		
2	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R119874**		

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	**FP-RE65165**	*STD*	Crankshaft and Bearing codes 4702, 4703
6	Plain Main Brg.	**FP-RE65911**	*.25MM*	Crankshaft and Bearing codes 4702, 4703
1	Flanged Main Brg.	**FP-RE65168**	*STD*	Crankshaft and Bearing codes 4702, 4703
1	Flanged Main Brg.	**FP-RE65912**	*.25MM*	Crankshaft and Bearing codes 4702, 4703

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil tube from pump to block

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	**FP-R123178**		Con. Rod, Bearing & Piston code 4807; 1.375" pin dia.
6	Pin	**FP-R123177**		Con. Rod, Bearing & Piston codes 4810; 1.62" pin dia.
12	Piston Pin Retainer	**FP-M41029**		Con. Rod, Bearing & Piston codes 4805, 4807; For 1.38" pin dia.
12	Piston Pin Retainer	**FP-R54114**		Con. Rod, Bearing & Piston codes 4810; For 1.62" pin dia.
6	Pin Bushing	**FP-R114082**		Con. Rod, Bearing & Piston code 4810; w/Con. Rod marked R500335
6	Pin Bushing	**FP-R123960**		Con. Rod, Bearing & Piston codes 4807, 4810; 1.375" pin dia.
6	Piston Pin Kit	**FP-RE63915**		Con. Rod, Bearing & Piston codes 4810; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4810; w/Con. Rod marked R500335; From Ser. No. 794,055
6	Rod Pair	**FP-RE65908**	*STD*	Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335
6	Rod Pair	**FP-RE65909**	*.25MM*	Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335

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* New Item — Check For Availability

103 (cont.)

Combine **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Cotton Picker* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Harvester* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Grader* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Power Unit* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Wheel Tractor* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Loader Tractor* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Excavator* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Sprayer* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Logger* **6068H PowerTech Eng. (4-Valve Cyl. Head).** *Feller Buncher* **6068H PowerTech Eng. (4-Valve Cyl. Head).**

6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 4V IC), 106mm Bore

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-IFKPT6068**		

104

Combine **6068D PowerTech Eng.** *Cotton Picker* **6068D PowerTech Eng.** *Grader* **6068D PowerTech Eng.** *Loader* **6068D PowerTech Eng.** *Power Unit* **6068D PowerTech Eng.** *Wheel Tractor* **6068D PowerTech Eng.** *Forestry Tractor* **6068D PowerTech Eng.** *Excavator* **6068D PowerTech Eng.** *Skidder* **6068D PowerTech Eng.** *Dozer* **6068D PowerTech Eng.** *Sprayer* **6068D PowerTech Eng.**

6.8L 413.8 (6784cc) OHV Diesel L6 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R123543**		
1	Head Gasket	**FP-R116516**		
1	Head Set	**FP-RE66083**		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-R98062**	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
6	Intake	**FP-R97490**	*15*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
6	Exhaust	**FP-R90692**	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
6	Exhaust	**FP-R97492**	*15*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
24	Keeper	**FP-R91889**		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	**FP-R85687**	*STD*	
6	Int.	**FP-R98335**		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
6	Int.	**FP-R98063**	*STD*	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	**FP-R26125**		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	**FP-RE60005**		Exh. & Int.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	**FP-RE31617**		Exh. & Int.; From Ser. No. 300,000; Positive type
12	Valve Stem Seal	**FP-R87627**		Exh. & Int.; O-Ring type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	**FP-R53108**		3-Hole mount; Starting motor codes 3003, 3006, 3010, 3011, 3013, 3025, 3026

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Seal	**FP-R92352**		Upper packing
6	Washer Type Seal	**FP-R48000**		Lower packing
11	Washer Type Seal	**FP-R51936**		Fuel line; Line code 16LR; From Ser. No. 707,096
11	Washer Type Seal	**FP-R51936**		Fuel line; Line codes 1613, 1614, 1615, 1622, 1623, 1668, 1678, 1686, 1696

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	**FP-RE500737 ***		Standard flow
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked RE70683, RE70985

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	**FP-RE33705**		w/Housing marked T19651, T20218, R60256, R127777; 180 Deg.

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104 (cont.) *Combine* 6068D PowerTech Eng. *Cotton Picker* 6068D PowerTech Eng. *Grader* 6068D PowerTech Eng. *Loader* 6068D PowerTech Eng. *Power Unit* 6068D PowerTech Eng. *Wheel Tractor* 6068D PowerTech Eng. *Forestry Tractor* 6068D PowerTech Eng. *Excavator* 6068D PowerTech Eng. *Skidder* 6068D PowerTech Eng. *Dozer* 6068D PowerTech Eng. *Sprayer* 6068D PowerTech Eng.

6.8L 413.8 (6784cc) OHV Diesel L6 (PowerTech 2V), 106mm Bore

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R123354		
2	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-H35244		Crankshaft Pulley

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE65165	STD	Crankshaft and Bearing code 4702
6	Plain Main Brg.	FP-RE65911	.25MM	Crankshaft and Bearing code 4702
1	Flanged Main Brg.	FP-RE65168	STD	Crankshaft and Bearing code 4702
1	Flanged Main Brg.	FP-RE65912	.25MM	Crankshaft and Bearing code 4702

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R61871		Oil tube from pump to block

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R121867	STD	
6	Liner w/Sealing Rings	FP-RE500024	STD	
6	Cylinder Kit Complete	FP-RE65966	STD	
6	Cyl. Liner Sealing Ring Kit	FP-AR65507		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-RE505101	STD	Con. Rod, Bearing & Piston code 4805
6	Pin	FP-R123178		Con. Rod, Bearing & Piston code 4805; 1.375" pin dia.
12	Piston Pin Retainer	FP-M41029		Con. Rod, Bearing & Piston code 4805; For 1.38" pin dia.
6	Pin Bushing	FP-R123960		Con. Rod, Bearing & Piston code 4805; 1.375" pin dia.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R114083		Con. Rod, Bearing & Piston code 4805; w/Con. Rod marked R123959; To Ser. No. 794,054; Machine split rod
12	Con. Rod Bolt	FP-R501124		Con. Rod, Bearing & Piston code 4805; w/Con. Rod marked R500000; From Ser. No. 794,055; Fractured split rod
6	Rod Pair	FP-RE65908	STD	Con. Rod, Bearing & Piston code 4805; w/Con. Rod marked R123959, R500000
6	Rod Pair	FP-RE65909	.25MM	Con. Rod, Bearing & Piston code 4805; w/Con. Rod marked R123959, R500000

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE66271	STD	

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFKPT6068		

105 *Power Unit* 6068N PowerTech Eng. (Natural Gas). *Wheel Tractor* 6068N PowerTech Eng. (Natural Gas).

6.8L 413.8 (6784cc) OHV NG L6 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123543		
1	Head Gasket	FP-R116516		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
24	Keeper	FP-R91889		Head & valve code 5113

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		Head & valve code 5113; 2.1200" Free Height

(continued on next page)

Power Unit 6068N PowerTech Eng. (Natural Gas). *Wheel Tractor* 6068N PowerTech Eng. (Natural Gas). (cont.) 105

6.8L 413.8 (6784cc) OHV NG L6 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE60005		Exh. & Int.; Head & valve code 5113

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-R90658		Exh. manifold, shield code 2817

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Filter	FP-R98527		Water pump code 4404; Pump marked R500401

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-AR72852		Thermostat code 2203; 192 Deg.
1	O-Ring	FP-R26286		Sensor seal; Thermostat codes 2108, 2203

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R123354		
2	O-Ring	FP-U13639		Block coolant drain plug seal; Block code 4604; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		Block code 4604

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE65165	*STD*	Crankshaft and Bearing code 4702; w/Crankshaft marked R116076
6	Plain Main Brg.	FP-RE65911	*.25MM*	Crankshaft and Bearing code 4702; w/Crankshaft marked R116076
1	Flanged Main Brg.	FP-RE65168	*STD*	Crankshaft and Bearing code 4702; w/Crankshaft marked R116076
1	Flanged Main Brg.	FP-RE65912	*.25MM*	Crankshaft and Bearing code 4702; w/Crankshaft marked R116076

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R61871		Oil pump code 5001; Oil pump inlet seal
1	O-Ring	FP-R72328		Vent tube elbow seal; Rocker arm cover code 1104

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR65507		Piston & rod bearing code 4811

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R123177		Piston & rod bearing code 4811; 1.62" pin dia.
12	Piston Pin Retainer	FP-R54114		Piston & rod bearing code 4811; For 1.62" pin dia.
6	Pin Bushing	FP-R114082		Use w/Con. Rod marked R500335
6	Piston Pin Kit	FP-RE63915		Piston & rod bearing code 4811; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R501124		Use w/Con. Rod marked R500335
6	Rod Pair	FP-RE65908	*STD*	Piston & rod bearing code 4811
6	Rod Pair	FP-RE65909	*.25MM*	Piston & Rod bearing code 4811

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE507852	*STD*	Piston & rod bearing code 4811; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	FP-RE66820	*STD*	Piston & rod bearing code 4811; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

Cotton Picker 6068T Eng. *Loader* 6068T Eng. *Crawler Tractor* 6068T Eng. *Excavator* 6068T Eng. *Skidder* 6068T Eng. *Feller Buncher* 6068T Eng. 106

6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (Litre Engine), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R75728		RePower Engs.; Valve cover code 1110
1	Valve Cover Gasket	FP-R75728		Rocker cover codes 1102, 1103, 1104
1	Head Gasket	FP-R114157		Cyl. head code 5101
1	Head Set	FP-RE29859		Cyl. head code 5101

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R98062	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.

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106 (cont.) *Cotton Picker* **6068T Eng.** *Loader* **6068T Eng.** *Crawler Tractor* **6068T Eng.** *Excavator* **6068T Eng.** *Skidder* **6068T Eng.** *Feller Buncher* **6068T Eng.**

6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (Litre Engine), 106mm Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE (cont.)	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R97490	15	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
6	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
6	Exhaust	FP-R97492	15	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
24	Keeper	FP-R91889		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R85687	STD	
6	Int.	FP-R98335		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
6	Int.	FP-R98063	STD	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE60005		Exh. & Int.
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover code 1103; Oil filler neck codes 1201, 1202, 1203

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-RE31617		Exh. & Int.; From Ser. No. 300,000; Positive type
12	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube codes 2902, 2905, 2909, 2912
1	O-Ring	FP-R56463		Rocker cover breather tube; RePower Engs.; Breather tube code 2909

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3002, 3007, 3011, 3013, 3015, 3016, 3017, 3018, 3019

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; w/24 Volt alternator conversion
1	Ball Brg.	FP-JD9449		Front; Delco-Remy No. 1102936; Code 3105; 12 Volt, 61 amp alternator
1	Ball Brg.	FP-JD9449		Front; Delco-Remy Nos. 1100490, 1102932, 1105174; Code 3103; 12 Volt, 72 amp alternator
1	Ball Brg.	FP-JD9449		Front; Delco-Remy Nos. 1100491, 1100580; Code 3102
1	Ball Brg.	FP-JD9449		Front; Motorola No. 8TA2009ES; Code 3104; 12 Volt, 30 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola No. 70D42179T02; 24 Volt alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola Replacement Nos. 8EM2009NA, 8EM2009NB alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-R90658		
2	Air Intake Gasket	FP-R81275		

QTY	AIR INTAKE	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56905		Air intake system code 1709
1	O-Ring	FP-R56905		RePower Engs.; Air intake system code 1733

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
12	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
6	Fuel Injector Nozzle	FP-RE36939		w/Injector marked 28484
6	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1622, 1623, 1642, 1643, 1654; Nozzle marked 28484; 9.270MM X 13.600MM X 5.080MM
6	Fuel Injector Nut	FP-R79604		w/Injector marked 28484

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Cotton Picker **6068T Eng.** *Loader* **6068T Eng.** *Crawler Tractor* **6068T Eng.** *Excavator* **6068T Eng.** *Skidder* **6068T Eng.** *Feller Buncher* **6068T Eng.** **106 (cont.)**

6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (Litre Engine), 106mm Bore

FUEL SYSTEM & PARTS (cont.)

QTY	FUEL INJECTION (cont.)	PART NO.	SIZE	DESCRIPTION
12	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1602, 1610, 1612, 1619

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		w/Turbo oil line codes 6501, 6502, 6506, 6512, 6568
1	Turbocharger Mounting Gasket	FP-R43751		From Ser. No. 100,000 to Ser. No. 499,999; Codes 6506, 6512
1	Turbocharger Mounting Gasket	FP-R89879		RePower Engs.; Codes 6502, 6506, 6568

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Shaft	FP-R82052		w/Pump housing marked R80168
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	FP-R56812		w/Pump housing marked R80168, R90784, R104648, R120869
1	Water Pump Repair/Rebuild Kit	FP-RE19511		w/Pump housing marked R60601, R67741, R67748, R72644
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Repair/Rebuild Kit	FP-RE70143		From Ser. No. 100,000 to Ser. No. 499,999; w/Cast iron impeller
2	Ball Brg.	FP-JD7686		Front/Rear shaft bearing; Pump code 2025; w/Pump housing marked R80168, R120869; w/H/D water pump
2	Ball Brg.	FP-JD7686		Front/Rear shaft bearing; Pump code 2025; RePower Engs.; w/Pump housing marked R80168
2	Ball Brg.	FP-JD10329		Front & Rear; Fan hub shaft bearing; w/Pump housing marked R120869, R80168
1	Water Pump Housing Gasket	FP-R56809		w/Pump housing marked R90783
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked R80168, R90784, R104648, R120869
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R80168, R90783, R90784, R104648, R120869
1	Oil Seal	FP-AR90860		Pump code 2025; w/H/D water pump; w/housing marked R80168, R120869
1	Oil Seal	FP-AR90860		RePower Engs.; Pump code 2025; w/housing marked R80168
1	Shaft & Bearing Assembly	FP-JD8643		w/Pump housing marked R90784, R104648

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2204; Thermostat cover code 2102 Vertical, 2104 Horizontal; Housing code 3901; 180 Deg.
1	Thermostat Cover Gasket	FP-R54638		Thermostat cover codes 2102, 2104, 2108; Thermostat housing code 3901; w/Two thermostats
1	Therm. Hsg. - Water Mfld. Gsk	FP-R54641		Thermostat housing to cyl. head
2	O-Ring	FP-R56461		Thermostat housing tube seals; Housing codes 3901, 3905

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		
1	Oil Pan Gasket Set	FP-PG303PS		
2	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"
1	Block to End Plate Front Gskt	FP-R131794		Front plate codes 3601, 3602

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG359S		
1	Complete Overhaul Gasket Set	FP-RE38555		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE38555WS		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		From Ser. No. 100,000 to Ser. No. 499,999

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler Gasket	FP-R27948		Lower core to housing ; Cooler code 5911
1	Oil Cooler Gasket	FP-R98485		Lower cover to housing gskt.
1	Oil Cooler Gasket	FP-R98484		Oil cooler core to housing gskt.
1	Oil Cooler Gasket	FP-R98485		RePower Engs.; From Ser. No. 100,000 to Ser. No. 499,999; Lower cover to housing gskt.
1	Oil Cooler Gasket	FP-R98484		RePower Engs.; From Ser. No. 100,000 to Ser. No. 499,999; Oil cooler core to housing gskt.
1	O-Ring	FP-R56462		Oil cooler adapter code 5913; Adapter cover bolt seal
1	O-Ring	FP-R56192		Oil cooler housing inner seal; Cooler code 5911
1	O-Ring	FP-R56814		Oil cooler housing inner seal; Cooler codes 5908, 5909, 5912
1	O-Ring	FP-R56192		Oil cooler housing inner seal; RePower Engs.; Cooler code 5909
1	O-Ring	FP-R56193		Oil cooler housing outer seal; Cooler code 5911
1	O-Ring	FP-R56193		Oil cooler housing outer seal; RePower Engs.; Cooler code 5909

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106 (cont.) *Cotton Picker* 6068T Eng. *Loader* 6068T Eng. *Crawler Tractor* 6068T Eng. *Excavator* 6068T Eng. *Skidder* 6068T Eng. *Feller Buncher* 6068T Eng.

6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (Litre Engine), 106mm Bore

ENGINE BLOCK & PARTS (cont.)

QTY	OIL COOLERS & FILTERS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Rect. or Square Seal	FP-R70956		Cooler housing; Cooler code 5904; Ten plates; 2.700" X 3.000" X .180"
1	Oil Cooler Cover Gasket	FP-R98471		
1	Oil Cooler to Block Gasket	FP-R98489		From Ser. No. 100,000 to Ser. No. 499,999
1	Oil Cooler to Block Gasket	FP-R98489		RePower Engs.; From Ser. No. 100,000 to Ser. No. 499,999
1	Oil Cooler Adapter Cover Gskt	FP-R114097		Filter adapter code 5904; From Ser. No. 100,000 to Ser. No. 499,999

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-RE45517		
1	Oil Seal Kit	FP-SK67942		RePower Engs.; Crankshaft code 4701; w/Crankshaft marked R104523, R121027; Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		
1	O-Ring	FP-H35244		Crankshaft pulley; Pulley codes 1303, 1308; Crankshaft, Bearing code 4701; Crankshaft marked R104523, R121027

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3006	STD	
1	Main Set	FP-MBK300610	10	
1	Main Set	FP-MBK300620	20	
1	Main Set	FP-MBK300630	30	
6	Plain Main Brg.	FP-RE27352	STD	w/Flangeless thrust brg.
6	Plain Main Brg.	FP-RE27353	10	w/Flangeless thrust brg.
6	Plain Main Brg.	FP-RE27360	20	w/Flangeless thrust brg.
6	Plain Main Brg.	FP-RE27368	30	w/Flangeless thrust brg.
1	Flanged Main Brg.	FP-RE521350	STD	
1	Flanged Main Brg.	FP-RE526754	10	
1	Flanged Main Brg.	FP-RE527235	20	
1	Flanged Main Brg.	FP-RE527236	30	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R61871		Oil pump inlet; H/D Pump code 5003
1	O-Ring	FP-R61871		Oil pump inlet; Pump codes 5001, 5002, 5005; From Ser. No. 427,376; w/Pump housing marked R54615
1	O-Ring	FP-R61871		Oil pump inlet; RePower Engs.; Pump codes 5012
2	O-Ring	FP-R80632		Oil Pump outlet
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck codes 1201, 1202, 1203, 1299
1	Oil Filter Adapter Gasket	FP-R98488		w/Filter adapter marked R56189, R91597, R113646, R131238
1	Oil Pump Seal Ring	FP-R79563		Oil pump outlet adapter; Pump codes 5001, 5002; w/Pump marked R54629

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R121867	STD	
6	Liner w/Sealing Rings	FP-RE500024	STD	
6	Cylinder Kit Complete	FP-RE53073	STD	Hi-Ring
6	Cyl. Liner Sealing Ring Kit	FP-AR65507		
6	Sealing Ring, Liner	FP-R48767		Rectangle; Top
6	Sealing Ring, Liner	FP-R26121		Round; Middle
6	Sealing Ring	FP-SLR2520		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-RE48469	STD	Hi-Ring
6	Piston Kit w/Pin & Retainers	FP-AR96389WP		w/Con. Rod marked 56187
6	Piston Kit w/Pin & Retainers	FP-RE48469WP		Hi-Ring
6	Pin	FP-R124230		Hi-Ring; 1.62" pin dia.
12	Piston Pin Retainer	FP-R54114		Hi-Ring; For 1.62" pin dia.
6	Pin Bushing	FP-R57451		w/Con. Rod marked R56187, R58979, R80032, R113612; Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.
6	Pin Bushing	FP-R114082		Con. Rod, Bearing & Piston code 4810; w/Con. Rod marked R500335

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Cotton Picker **6068T Eng.** *Loader* **6068T Eng.** *Crawler Tractor* **6068T Eng.** *Excavator* **6068T Eng.** *Skidder* **6068T Eng.** *Feller Buncher* **6068T Eng.** **106 (cont.)**

6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (Litre Engine), 106mm Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R74195		w/Con. Rod marked R54617, R56187, R116851; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	FP-AR97517	STD	
6	Rod Pair	FP-AR97653	10	
6	Rod Pair	FP-AR97654	20	
6	Rod Pair	FP-AR97655	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE507852	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	FP-RE66820	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-6068TIFK		w/Con. Rod marked R54617, R56187, R116851; w/Flangeless thrust brg.; Hi-Ring; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-6068TOHK		From Ser. No. 100,000 to Ser. No. 499,999; w/Con. Rod marked R56187; Piston pin dia. 1.62"; w/Flangeless thrust brg.; Incl. front & rear seals; RePower Engs.; Crankshaft code 4701; Crankshaft marked R104523, R121027; Hi-Ring; Incl. Torque-To-Yield con. rod bolts

Power Unit **6068TN PowerTech Eng. (Natural Gas).** *Wheel Tractor* **6068TN PowerTech Eng. (Natural Gas).** **107**

6.8L 413.8 (6784cc) OHV Turbo-NG L6 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123543		
1	Head Gasket	FP-R116516		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
24	Keeper	FP-R91889		Head & valve code 5113

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		Head & valve code 5113; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE60005		Exh. & Int.; Head & valve code 5113

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-R90658		Exh. manifold, shield code 2817

FUEL SYSTEM & PARTS

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R80632		Turbo oil line code 6529; Oil inlet adapter seal

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Filter	FP-R98527		Water pump code 4404; Pump marked R500401, R500734; High Flow

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-AR72852		Thermostat code 2203; 192 Deg.
1	O-Ring	FP-R26286		Sensor seal; Thermostat codes 2108, 2203

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-U13639		Block coolant drain plug seal; Block code 4604; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		Block code 4604

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE65165	STD	Crankshaft and Bearing codes 4702, 4703; w/Crankshaft marked R116076
6	Plain Main Brg.	FP-RE65911	.25MM	Crankshaft and Bearing codes 4702, 4703; w/Crankshaft marked R116076
1	Flanged Main Brg.	FP-RE65168	STD	Crankshaft and Bearing codes 4702, 4703; w/Crankshaft marked R116076

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107 (cont.) *Power Unit* 6068TN PowerTech Eng. (Natural Gas). *Wheel Tractor* 6068TN PowerTech Eng. (Natural Gas).

6.8L 413.8 (6784cc) OHV Turbo-NG L6 (PowerTech 2V), 106mm Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	MAIN BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Flanged Main Brg.	FP-RE65912	.25MM	Crankshaft and Bearing codes 4702, 4703; w/Crankshaft marked R116076

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R61871		Oil pump code 5001; Oil pump inlet seal
1	O-Ring	FP-R72328		Vent tube elbow seal; Rocker arm cover code 1104

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR65507		Piston & rod bearing code 4811

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R123177		Piston & rod bearing code 4811; 1.62" pin dia.
12	Piston Pin Retainer	FP-R54114		Piston & rod bearing code 4811; For 1.62" pin dia.
6	Pin Bushing	FP-R114082		Use w/Con. Rod marked R500335
6	Piston Pin Kit	FP-RE63915		Piston & rod bearing code 4811; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R501124		Use w/Con. Rod marked R500335
6	Rod Pair	FP-RE65908	STD	Piston & rod bearing code 4811; w/Con. Rod marked R114081
6	Rod Pair	FP-RE65909	.25MM	Piston & Rod bearing code 4811; w/Con. Rod marked R114081

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE507852	STD	Piston & rod bearing code 4811; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	FP-RE66820	STD	Piston & rod bearing code 4811; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

108 *Combine* 6068T PowerTech Eng. *Cotton Picker* 6068T PowerTech Eng. *Grader* 6068T PowerTech Eng. *Loader* 6068T PowerTech Eng. *Power Unit* 6068T PowerTech Eng. *Wheel Tractor* 6068T PowerTech Eng. *Windrower* 6068T PowerTech Eng. *Crawler Tractor* 6068T PowerTech Eng. *Loader Tractor* 6068T PowerTech Eng. *Forestry Tractor* 6068T PowerTech Eng. *Excavator* 6068T PowerTech Eng. *Skidder* 6068T PowerTech Eng. *Dozer* 6068T PowerTech Eng. *Backhoe* 6068T PowerTech Eng. *Sprayer* 6068T PowerTech Eng. *Integrated Tool Carrier* 6068T PowerTech Eng.

6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123543		
1	Head Gasket	FP-R116516		
1	Head Set	FP-RE66083		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R98062	STD	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
6	Intake	FP-R97490	15	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
6	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
6	Exhaust	FP-R97492	15	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
24	Keeper	FP-R91889		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R85687	STD	
6	Int.	FP-R98335		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
6	Int.	FP-R98063	STD	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE60005		Exh. & Int.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-RE31617		Exh. & Int.; From Ser. No. 300,000; Positive type
12	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3003, 3006, 3010, 3011, 3013, 3025, 3026

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Combine **6068T PowerTech Eng.** *Cotton Picker* **6068T PowerTech Eng.** *Grader* **6068T PowerTech Eng.** *Loader* **6068T PowerTech Eng.** *Power Unit* **6068T PowerTech Eng.** *Wheel Tractor* **6068T PowerTech Eng.** *Windrower* **6068T PowerTech Eng.** *Crawler Tractor* **6068T PowerTech Eng.** *Loader Tractor* **6068T PowerTech Eng.** *Forestry Tractor* **6068T PowerTech Eng.** *Excavator* **6068T PowerTech Eng.** *Skidder* **6068T PowerTech Eng.** *Dozer* **6068T PowerTech Eng.** *Backhoe* **6068T PowerTech Eng.** *Sprayer* **6068T PowerTech Eng.** *Integrated Tool Carrier* **6068T PowerTech Eng.**

108 (cont.)

6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 2V), 106mm Bore

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Nozzle	**FP-RE48786**		
6	Fuel Injector Seal	**FP-R92352**		Upper packing
6	Washer Type Seal	**FP-R48000**		Lower packing
12	Washer Type Seal	**FP-R51936**		Fuel line; Line codes 1613, 1614, 1615, 1619, 1621, 1622, 1623, 1668, 1678, 1680, 1681, 1685, 1686, 1688, 1697, 160D; To Ser. No. 715,739
12	Washer Type Seal	**FP-R51936**		Fuel line; Line codes 1619, 1681, 1685, 1686, 1696, 1697, 16CM, 16CN, 16CP, 16CW, 16CX, 16CY, 16DY, 16LS, 16LT, 16LU, 16MG, 16MH, 16ML, 16MM

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	**FP-RE500737 ***		Standard flow
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked RE70683, RE70985
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked R500734; High Flow

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
2	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R119874**		

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	**FP-RE65165**	*STD*	Crankshaft and Bearing codes 4702, 4703
6	Plain Main Brg.	**FP-RE65911**	*.25MM*	Crankshaft and Bearing codes 4702, 4703
1	Flanged Main Brg.	**FP-RE65168**	*STD*	Crankshaft and Bearing codes 4702, 4703
1	Flanged Main Brg.	**FP-RE65912**	*.25MM*	Crankshaft and Bearing codes 4702, 4703

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil tube from pump to block

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R121867**	*STD*	
6	Liner w/Sealing Rings	**FP-RE500024**	*STD*	
6	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-RE55512**	*STD*	Con. Rod Bearing & Piston code 4810
6	Piston Body w/o Pin	**FP-RE505100**	*STD*	Con. Rod, Bearing & Piston codes 4807
6	Pin	**FP-R123178**		Con. Rod, Bearing & Piston code 4807; 1.375" pin dia.
6	Pin	**FP-R123177**		Con. Rod, Bearing & Piston codes 4810; 1.62" pin dia.
12	Piston Pin Retainer	**FP-M41029**		Con. Rod, Bearing & Piston codes 4805, 4807; For 1.38" pin dia.
12	Piston Pin Retainer	**FP-R54114**		Con. Rod, Bearing & Piston codes 4810; For 1.62" pin dia.
6	Pin Bushing	**FP-R114082**		Con. Rod, Bearing & Piston code 4810; w/Con. Rod marked R500335
6	Pin Bushing	**FP-R123960**		Con. Rod, Bearing & Piston codes 4807, 4810; w/Con. Rod marked R500000, R123959; 1.375" pin dia.
6	Piston Pin Kit	**FP-RE63915**		Con. Rod, Bearing & Piston codes 4810; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R114083**		Cyl. Liner code 4807; w/Con. Rod marked R123959; To Ser. No. 794,054
12	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4807,4810; w/Con. Rod marked R500000, R500335; From Ser. No. 794,055
12	Con. Rod Bolt	**FP-R114083**		Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335; From Ser. No. 794,055

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108 (cont.) *Combine* **6068T PowerTech Eng.** *Cotton Picker* **6068T PowerTech Eng.** *Grader* **6068T PowerTech Eng.** *Loader* **6068T PowerTech Eng.** *Power Unit* **6068T PowerTech Eng.** *Wheel Tractor* **6068T PowerTech Eng.** *Windrower* **6068T PowerTech Eng.** *Crawler Tractor* **6068T PowerTech Eng.** *Loader Tractor* **6068T PowerTech Eng.** *Forestry Tractor* **6068T PowerTech Eng.** *Excavator* **6068T PowerTech Eng.** *Skidder* **6068T PowerTech Eng.** *Dozer* **6068T PowerTech Eng.** *Backhoe* **6068T PowerTech Eng.** *Sprayer* **6068T PowerTech Eng.** *Integrated Tool Carrier* **6068T PowerTech Eng.**

6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 2V), 106mm Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS. (cont.)	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	**FP-RE65908**	*STD*	Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335
6	Rod Pair	**FP-RE65909**	*.25MM*	Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-RE66271**	*STD*	Piston & Liner code 4807
6	Ring Set Single Cylinder	**FP-RE507852**	*STD*	Piston & Liner code 4810; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	**FP-RE66820**	*STD*	Piston & Liner code 4810; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-IFKPT6068**		Con. Rod, Bearing & Piston codes 4807

109 *Grader* **6414D Eng.** *Loader* **6414D Eng.** *Crawler Tractor* **6414D Eng.** *Loader Tractor* **6414D Eng.** *Skidder* **6414D Eng.**

6.8L 414 OHV Diesel L6 (Standard), 4.1875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R75728**		Rocker cover codes 1102, 1103; From Ser. No. 608,511
1	Valve Cover Gasket	**FP-T20467**		To Ser. No. 103,088
1	Head Gasket	**FP-R114157**		From Ser. No. 100,001; Manufactured after 1983
1	Head Gasket	**FP-R114157**		From Ser. No. 290,001 to Ser. No. 621,172; Manufactured 1974-83
1	Head Set	**FP-RE38852**		From Ser. No. 100,001; Manufactured after 1983
1	Head Set	**FP-RE38852**		From Ser. No. 290,001 to Ser. No. 621,172; Manufactured 1974-83

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-R89219**	*STD*	Optional Non-Stellite; 1 groove; Chrome plated stem; 1.8210" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Intake	**FP-R83071**	*STD*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3720" Stem Dia., 5.1660" O.A.L.
6	Intake	**FP-R89223**	*3*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3750" Stem Dia., 5.1660" O.A.L.
6	Intake	**FP-R89224**	*15*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3870" Stem Dia., 5.1660" O.A.L.
6	Intake	**FP-R79623**	*STD*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Intake	**FP-R79628**	*3*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
6	Intake	**FP-R79629**	*15*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
6	Intake	**FP-R79630**	*30*	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
6	Exhaust	**FP-R79624**	*STD*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Exhaust	**FP-R79625**	*3*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
6	Exhaust	**FP-R79626**	*15*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
6	Exhaust	**FP-R79627**	*30*	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
24	Keeper	**FP-41339**		1 groove; Square cut key groove
24	Keeper	**FP-T20077**		1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	**VK-138B**		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	**FP-R51734**	*STD*	
6	Int.	**FP-R73064**	*STD*	

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Grader **6414D Eng.** *Loader* **6414D Eng.** *Crawler Tractor* **6414D Eng.** *Loader Tractor* **6414D Eng.** *Skidder* **6414D Eng.** **109 (cont.)**

6.8L 414 OHV Diesel L6 (Standard), 4.1875" Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-RE11410		Exh.
1	Bushing	FP-T26321		Lower
1	Bushing	FP-T20034		Upper
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover code 1103

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube codes 2909, 2915

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3002, 3011, 3013, 3016, 3017, 3018

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; w/24 Volt alternator conversion
1	Ball Brg.	FP-JD9449		Front; Delco-Remy No. 1102936; Code 3105; 12 Volt, 61 amp alternator
1	Ball Brg.	FP-JD9449		Front; Delco-Remy Nos. 1100490, 1102932, 1105174; Code 3103; 12 Volt, 72 amp alternator
1	Ball Brg.	FP-JD9449		Front; Delco-Remy Nos. 1100491, 1100580; Code 3102; 12 Volt, 55 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. 8TA2009ES; Code 3104; 12 Volt, 30 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola No. 70D42179T02; 24 Volt alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola Replacement Nos. 8EM2009NA, 8EM2009NB alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-R90658		
2	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
12	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
6	Fuel Injector Nozzle	FP-RE37503		Nozzle codes 1602, 1603; From Ser. No. 100,001; Manufactured after 1983
6	Fuel Injector Nozzle	FP-RE37503		Nozzle codes 1602, 1603, 1605; From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
6	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1602, 1603; 9.270MM X 13.600MM X 5.080MM
6	Fuel Injector Seal	FP-R92352		Upper packing; w/Stanadyne® nozzle No. 26993
6	Fuel Injector Nut	FP-R79604		w/Injector marked 20291, 22205, 22264, 26993
12	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1602, 1603, 1607
6	Washer Type Seal	FP-R48000		Lower; w/Nozzle codes 1602, 1603
6	Washer Type Seal	FP-R60746		Upper; Nozzle codes 1602, 1603

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Transfer pump
1	Fuel Transfer Pump Gasket	FP-R97350		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
2	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	FP-R56809		w/Pump housing marked R56813, R90784, R104648
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked R56813, R90784, R104648

(continued on next page)

109 (cont.) *Grader* 6414D Eng. *Loader* 6414D Eng. *Crawler Tractor* 6414D Eng. *Loader Tractor* 6414D Eng. *Skidder* 6414D Eng.

6.8L 414 OHV Diesel L6 (Standard), 4.1875" Bore

COOLING SYSTEM (cont.)

QTY	WATER PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R56813, R90784, R104648

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2204; Thermostat cover code 2102 Vertical; Housing code 2108 Horizontal, 3901 Vertical; 180 Deg.
1	Therm. Hsg. - Water Mfld. Gsk	FP-R54641		Thermostat housing to cyl. head
2	O-Ring	FP-R56461		Thermostat housing tube seals; Housing code 3901

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		From Ser. No. 100,001; Manufactured after 1983
1	Flywheel Housing Gasket	FP-R97351		From Ser. No. 290,000 to Ser. No. 621,172
1	Oil Pan Gasket	FP-R97344		From Ser. No. 100,000; Manufactured after 1983
1	Oil Pan Gasket	FP-R97344		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	Oil Pan Gasket Set	FP-PG303PS		From Ser. No. 100,000; Manufactured after 1983
1	Oil Pan Gasket Set	FP-PG303PS		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	Block to End Plate Front Gskt	FP-R131794		From Ser. No. 100,001; Manufactured after 1983
1	Block to End Plate Front Gskt	FP-R131794		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG359S		
1	Complete Overhaul Gasket Set	FP-RE38555		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE38555WS		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-A4730R		From Ser. No. 100,001; Manufactured after 1983; Oil cooler to block check valve seal
1	O-Ring	FP-A4730R		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83; Oil cooler to block check valve seal
1	O-Ring	FP-R56814		Oil cooler housing inner seal; From Ser. No. 128,418
1	O-Ring	FP-R56192		Oil cooler housing inner seal; To Ser. No. 128,417
1	O-Ring	FP-R56193		Oil cooler housing outer seal; To Ser. No. 128,417
1	Oil Cooler to Block Gasket	FP-R98489		From Ser. No. 620,694
1	Oil Cooler to Head Gasket	FP-R98834		From Ser. No. 100,000; Manufactured after 1983
1	Oil Cooler to Head Gasket	FP-R98834		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-RE45517		
1	Oil Seal Kit	FP-SK67942		Incl. front & rear seals; Crankshaft codes 1302; Crankshaft marked R104523, R108679, R54619

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		
1	O-Ring	FP-H35244		Crankshaft pulley; Pulley codes 1302, 1308, 1314, 1338, 4101

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		Crankshaft codes 1303, 1308; Flywheel housing codes 1403, 1405, 1421, 1422, 1425

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3006	*STD*	w/Flanged thrust brg.
1	Main Set	FP-MBK300610	*10*	w/Flanged thrust brg.
1	Main Set	FP-MBK300620	*20*	w/Flanged thrust brg.
1	Main Set	FP-MBK300630	*30*	w/Flanged thrust brg.
6	Plain Main Brg.	FP-RE27352	*STD*	w/Flangeless thrust brg.
6	Plain Main Brg.	FP-RE27353	*10*	w/Flangeless thrust brg.
6	Plain Main Brg.	FP-RE27360	*20*	w/Flangeless thrust brg.
6	Plain Main Brg.	FP-RE27368	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	FP-RE521350	*STD*	
1	Flanged Main Brg.	FP-RE526754	*10*	
1	Flanged Main Brg.	FP-RE527235	*20*	
1	Flanged Main Brg.	FP-RE527236	*30*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R61871		Oil pump inlet; w/Pump housing marked R54629
2	O-Ring	FP-R80632		Oil Pump outlet tube
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck code 1200

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Grader 6414D Eng. *Loader* 6414D Eng. *Crawler Tractor* 6414D Eng. *Loader Tractor* 6414D Eng. *Skidder* 6414D Eng. (cont.) — 109

6.8L 414 OHV Diesel L6 (Standard), 4.1875" Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	OIL PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Oil Filter Adapter Gasket	FP-R98488		w/Filter adapter marked R91597, R131238; From Ser. No. 128,418
1	Oil Pump Seal Ring	FP-R79563		Oil pump outlet adapter; w/Pump marked R54629; To Ser. No. 122,430

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R121867	STD	
6	Liner w/Sealing Rings	FP-RE500024	STD	
6	Cylinder Kit Complete	FP-RE19833	STD	w/Con. Rod marked R56187
6	Cyl. Liner Sealing Ring Kit	FP-AR65507		
6	Sealing Ring, Liner	FP-R48767		Rectangle; Top
6	Sealing Ring, Liner	FP-R26121		Round; Middle
6	Sealing Ring	FP-SLR2520		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-AR68188	STD	1.62" pin dia.
6	Piston Kit w/Pin & Retainers	FP-AR68188WP	STD	1.62" pin dia.
6	Pin	FP-R124230		1.62" pin dia.
12	Piston Pin Retainer	FP-R54114		For 1.62" pin dia.
6	Pin Bushing	FP-R57451		w/Con. Rod marked R56187, R58979; Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R74195		w/Con. Rod marked R54617, R56187, R116851; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	FP-AR97517	STD	
6	Rod Pair	FP-AR97653	10	
6	Rod Pair	FP-AR97654	20	
6	Rod Pair	FP-AR97655	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE507852	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	FP-RE66820	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-414DIFK		w/Con. Rod marked R56187, R116851; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-414DOHK		w/Con. Rod marked R56187, R116851; Pin dia. 1.62"; Incl. Torque-To-Yield con. rod bolts

Grader 6414T Eng. *Loader* 6414T Eng. *Crawler Tractor* 6414T Eng. *Loader Tractor* 6414T Eng. *Forestry Tractor* 6414T Eng. *Excavator* 6414T Eng. *Skidder* 6414T Eng. *Dozer* 6414T Eng. *Feller Buncher* 6414T Eng. — 110

6.8L 414 OHV Turbo-Diesel L6 (Standard), 4.1875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R75728		Rocker cover codes 1102, 1103; From Ser. No. 608,511
1	Valve Cover Gasket	FP-T20467		To Ser. No. 608,510
1	Head Gasket	FP-R114157		From Ser. No. 100,001; Manufactured after 1983
1	Head Gasket	FP-R114157		From Ser. No. 290,001 to Ser. No. 621,172; Manufactured 1974-83
1	Head Set	FP-RE38852		From Ser. No. 100,001; Manufactured after 1983
1	Head Set	FP-RE38852		From Ser. No. 290,001 to Ser. No. 621,172; Manufactured 1974-83

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R89219	STD	Optional Non-Stellite; 1 groove; Chrome plated stem; 1.8210" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Intake	FP-R83071	STD	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3720" Stem Dia., 5.1660" O.A.L.
6	Intake	FP-R89223	3	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3750" Stem Dia., 5.1660" O.A.L.
6	Intake	FP-R89224	15	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3870" Stem Dia., 5.1660" O.A.L.
6	Intake	FP-R79623	STD	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.

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110 (cont.) *Grader* **6414T Eng.** *Loader* **6414T Eng.** *Crawler Tractor* **6414T Eng.** *Loader Tractor* **6414T Eng.** *Forestry Tractor* **6414T Eng.** *Excavator* **6414T Eng.** *Skidder* **6414T Eng.** *Dozer* **6414T Eng.** *Feller Buncher* **6414T Eng.**
6.8L 414 OHV Turbo-Diesel L6 (Standard), 4.1875" Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE (cont.)	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R79628	3	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
6	Intake	FP-R79629	15	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
6	Intake	FP-R79630	30	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
6	Exhaust	FP-R79624	STD	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Exhaust	FP-R79625	3	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
6	Exhaust	FP-R79626	15	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
6	Exhaust	FP-R79627	30	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
24	Keeper	FP-41339		1 groove; Square cut key groove
24	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R51734	STD	
6	Int.	FP-R73064	STD	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE11410		Exh. & Int.
1	Bushing	FP-T26321		Lower
1	Bushing	FP-T20034		Upper
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover code 1103

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube codes 2909, 2915

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3002, 3011, 3013, 3016, 3017, 3018

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; w/24 Volt alternator conversion
1	Ball Brg.	FP-JD9449		Front; Delco-Remy No. 1102936; Code 3105; 12 Volt, 61 amp alternator
1	Ball Brg.	FP-JD9449		Front; Delco-Remy Nos. 1100490, 1102932, 1105174; Code 3103; 12 Volt, 72 amp alternator
1	Ball Brg.	FP-JD9449		Front; Delco-Remy Nos. 1100491, 1100580; Code 3102
1	Ball Brg.	FP-JD9449		Front; Motorola No. 8TA2009ES; Code 3104; 12 Volt, 30 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola No. 70D42179T02; 24 Volt alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola Replacement Nos. 8EM2009NA, 8EM2009NB alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-R90658		
3	Air Intake Gasket	FP-R81275		

QTY	AIR INTAKE	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56905		Air intake system code 1718

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
12	Lifter	FP-T20073		

(continued on next page)

Grader **6414T Eng.** *Loader* **6414T Eng.** *Crawler Tractor* **6414T Eng.** *Loader Tractor* **6414T Eng.** *Forestry Tractor* **6414T Eng.** *Excavator* **6414T Eng.** *Skidder* **6414T Eng.** *Dozer* **6414T Eng.** *Feller Buncher* **6414T Eng.**

110 (cont.)

6.8L 414 OHV Turbo-Diesel L6 (Standard), 4.1875" Bore

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	**FP-R125066**		Gear cover
6	Fuel Injector Nozzle	**FP-RE37503**		Nozzle codes 1602, 1603; From Ser. No. 100,001; Manufactured after 1983
6	Fuel Injector Nozzle	**FP-RE37503**		Nozzle codes 1602, 1603; From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
6	Fuel Injector Seal	**FP-R79605**		Fuel line connection; Nozzle codes 1602, 1603; 9.270MM X 13.600MM X 5.080MM
6	Fuel Injector Seal	**FP-R92352**		Upper packing; w/Stanadyne® nozzle No. 26993
6	Fuel Injector Nut	**FP-R79604**		w/Injector marked 20291, 22205, 22264, 26993
12	Washer Type Seal	**FP-R51936**		Leak-off & return line seals; Nozzle codes 1602, 1603, 1609
6	Washer Type Seal	**FP-R48000**		Lower; w/Nozzle codes 1602, 1603; w/Nozzle marked 26933
6	Washer Type Seal	**FP-R60746**		Upper; Nozzle codes 1602, 1603

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	**FP-RE42211**		Transfer pump
1	Fuel Transfer Pump Gasket	**FP-R97350**		

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	**FP-R105346**		w/Turbo oil line codes 6504, 6530
1	Turbocharger Mounting Gasket	**FP-R89879**		
1	Turbocharger Oil Supply Gskt.	**FP-R97348**		From Ser. No. 100,001 to Ser. No. 148,514; Manufactured 1983-86
1	Turbocharger Oil Supply Gskt.	**FP-R97348**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	**FP-R56812**		w/Pump housing marked R56813, R90784, R104648
1	Water Pump Housing Gasket	**FP-R56809**		
1	Oil Seal Kit	**FP-AR101549**		Water Pump; w/Pump housing marked R56813, R90784, R104648
1	Water Pump Mounting Gasket	**FP-T20243**		w/Pump housing marked R56813, R90784, R104648
1	Shaft & Bearing Assembly	**FP-JD8643**		w/Pump housing marked R56813, R90784, R104648

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Therm. Hsg. - Water Mfld. Gsk	**FP-R54641**		Thermostat housing to cyl. head
2	O-Ring	**FP-R56461**		Thermostat housing tube seals; Housing code 3901

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	**FP-R97351**		From Ser. No. 100,001; Manufactured after 1983
1	Flywheel Housing Gasket	**FP-R97351**		From Ser. No. 290,000 to Ser. No. 621,172
1	Oil Pan Gasket	**FP-R97344**		
1	Oil Pan Gasket Set	**FP-PG303PS**		From Ser. No. 100,001; Manufactured after 1983
1	Oil Pan Gasket Set	**FP-PG303PS**		From Ser. No. 290,001 to Ser. No. 621,172; Manufactured 1974-83
1	Block to End Plate Front Gskt	**FP-R131794**		From Ser. No. 100,001; Manufactured after 1983
1	Block to End Plate Front Gskt	**FP-R131794**		From Ser. No. 290,001 to Ser. No. 621,172; Manufactured 1974-83

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	**FP-PG359S**		
1	Complete Overhaul Gasket Set	**FP-RE38555**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE38555WS**		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-A4730R**		From Ser. No. 100,001; Manufactured after 1983; Oil cooler to block check valve seal
1	O-Ring	**FP-A4730R**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83; Oil cooler to block check valve seal
1	O-Ring	**FP-R56814**		Oil cooler housing inner seal; From Ser. No. 138,460
1	O-Ring	**FP-R56192**		Oil cooler housing inner seal; To Ser. No. 138,459
1	O-Ring	**FP-R56193**		Oil cooler housing outer seal; To Ser. No. 138,459
1	Oil Cooler Cover Gasket	**FP-R98471**		
1	Oil Cooler to Block Gasket	**FP-R98489**		From Ser. No. 620,694
1	Oil Cooler to Head Gasket	**FP-R98834**		From Ser. No. 100,001; Manufactured after 1983
1	Oil Cooler to Head Gasket	**FP-R98834**		From Ser. No. 290,001 to Ser. No. 621,172; Manufactured 1974-83

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110 (cont.) *Grader* 6414T Eng. *Loader* 6414T Eng. *Crawler Tractor* 6414T Eng. *Loader Tractor* 6414T Eng. *Forestry Tractor* 6414T Eng. *Excavator* 6414T Eng. *Skidder* 6414T Eng. *Dozer* 6414T Eng. *Feller Buncher* 6414T Eng.

6.8L 414 OHV Turbo-Diesel L6 (Standard), 4.1875" Bore

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-RE45517		
1	Oil Seal Kit	FP-SK67942		Incl. front & rear seals; Crankshaft code 1302; Crankshaft marked R104523, R108679, R54619

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		
1	O-Ring	FP-H35244		Crankshaft pulley; Pulley codes 1302, 1308, 1314, 1338, 4101

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		Crankshaft codes 1302, 1308; Flywheel housing codes 1403, 1405, 1421, 1422, 1425

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3006	STD	
1	Main Set	FP-MBK300610	10	
1	Main Set	FP-MBK300620	20	
1	Main Set	FP-MBK300630	30	
6	Plain Main Brg.	FP-RE27352	STD	w/Flangeless thrust brg.
6	Plain Main Brg.	FP-RE27353	10	w/Flangeless thrust brg.
6	Plain Main Brg.	FP-RE27360	20	w/Flangeless thrust brg.
6	Plain Main Brg.	FP-RE27368	30	w/Flangeless thrust brg.
1	Flanged Main Brg.	FP-RE521350	STD	
1	Flanged Main Brg.	FP-RE526754	10	
1	Flanged Main Brg.	FP-RE527235	20	
1	Flanged Main Brg.	FP-RE527236	30	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R61871		Oil pump inlet; w/Pump housing marked R54629
2	O-Ring	FP-R80632		Oil Pump outlet tube
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck code 1200
1	Oil Pump Seal Ring	FP-R79563		Oil pump outlet adapter; w/Pump marked R54629; To Ser. No. 122,430

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R121867	STD	
6	Liner w/Sealing Rings	FP-RE500024	STD	
6	Cylinder Kit Complete	FP-RE19832	STD	w/Con. Rod marked R56187; Pin dia. 1.62"
6	Cyl. Liner Sealing Ring Kit	FP-AR65507		
6	Sealing Ring, Liner	FP-R48767		Rectangle; Top
6	Sealing Ring, Liner	FP-R26121		Round; Middle
6	Sealing Ring	FP-SLR2520		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-AR96389		
6	Piston Kit w/Pin & Retainers	FP-AR96389WP		w/Con. Rod marked 56187
6	Pin	FP-R124230		1.62" pin dia.
12	Piston Pin Retainer	FP-R54114		For 1.62" pin dia.
6	Pin Bushing	FP-R57451		w/Con. Rod marked R56187, R58979; Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R74195		w/Con. Rod marked R54617, R56187, R116851; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	FP-AR97517	STD	
6	Rod Pair	FP-AR97653	10	
6	Rod Pair	FP-AR97654	20	
6	Rod Pair	FP-AR97655	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE507852	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	FP-RE66820	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-414TIFK		w/Con. Rod marked R56187, R116851; Pin dia. 1.62"; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-414TOHK		w/Con. Rod marked R56187, R116851; Pin dia. 1.62"; Incl. Torque-To-Yield con. rod bolts

Wheel Tractor G Eng. 111
6.8L 414 OHV L2, 6.125" Bore

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
2	Cone Taper Brg.	FP-JD8135		Position 1-2; From Ser. No. G34691
2	Cup Taper Brg.	FP-JD7438		Position 1-2; From Ser. No. G34691

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-SK67942		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

CYLINDER COMPONENTS

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
2	Pin Bushing	FP-9759		w/1.750" ID, 1.895" OD, 2.500" O.A.L.
2	Pin Bushing	9759 +		w/1.750" ID, 1.895" OD, 2.500" O.A.L.; When depleted use FP-9759

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	FP-2155SB	STD	w/insert type brgs.

Wheel Tractor 6-71 In-Line (2-Valve Cyl. Head), 6-71N In-Line (4-Valve Cyl. Head) Engs. 112
7.0L 426 OHV Diesel L6 (6-71), 4.25" Bore (Detroit Diesel Eng.)

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-5104019		Engs. w/cast Alum. valve cover; Silicone
1	Valve Cover Gasket	FP-5143407		Engs. w/steel valve cover; Neoprene

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Exhaust	FP-5185327		6-71 Engs.; 1 groove, 30 deg. seat; 1.5840" Head Dia., .3420" Stem Dia., 6.4440" O.A.L.
12	Exhaust	FP-8922516		6-71N Engs.; 30 deg. seat; 1.1800" Head Dia., .3103" Stem Dia., 5.5280" O.A.L.
12	Exhaust Valve Kit	FP-5193197		6-71 Engs.; 30 deg. seat; Contains (1) FP-5185327 & (2) FP-23507238; 30 Degree
12	Exhaust Valve Kit	FP-5193666		6-71 Engs.; 30 deg. seat; Jet Blade; Contains (1) FP-5186381 & (2) FP-23507238; 30 Degree
12	Exhaust Valve Kit	FP-5192718		6-71 Engs.; 45 deg. seat; Contains (1) FP-5178472 & (2) FP-23507238; 45 Degree
24	Exhaust Valve Kit	FP-5149386		6-71N Engs.; Contains (1) FP-5104280 & (2) FP-5111337
24	Exhaust Valve Kit	FP-23500501		6-71N Engs.; Contains (1) FP-8922516 & (2) FP-5111337
24	Keeper	FP-23507238		6-71 Engs.; 1 groove; Square cut key groove
48	Keeper	FP-5111337		6-71N Engs.; 1 groove; Square cut key groove
48	Keeper	VK-144R		6-71N Engs.; 1 groove; Square cut key groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
12	Exh.	FP-5198230	10	6-71 Engs.; 30 deg. seat; 30 Deg. seat; .010" O/S; 1.6380" OD, 1.3440" ID, .2485" Depth
12	Exh.	FP-8927920	STD	6-71 Engs.; 30 deg. seat; 30 Deg. seat; 1.6280" OD, 1.3440" ID, .2485" Depth
24	Exh.	FP-5197167	10	6-71N Engs.; 30 deg. seat; 30 Deg. seat; .010" O/S; 1.2720" OD, .9770" ID, .2355" Depth
24	Exh.	FP-5101101	STD	6-71N Engs.; 30 deg. seat; 30 Deg. seat; 1.2620" OD, .9770" ID, .2490" Depth

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	FP-5192717		6-71 Engs.; .0162" O/S
12	Guide	FP-5120930		6-71 Engs.; .3450" ID, 3.2500" O.A.L.
24	Guide	FP-5129919		6-71N Engs.; 2 3/8" length; Cut for seal; 2 3/8" length; .3130" ID, 2.3800" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-5150289		6-71 Engs.; .177" Wire dia.
24	Spring	FP-5111339		Exh.; 6-71N Engs.; From Ser. No. 6V-8192; .135" Wire dia.
24	Spring	FP-5147347		Exh.; 6-71N Engs.; To Ser. No. 6V-8191; .148" Wire dia.
12	Valve Spring Seat	FP-5150292		6-71 Engs.
24	Valve Spring Seat	FP-5117562		6-71N Engs.
24	Spring Insert	FP-5111467		Exh. Valve Spring Washer
12	Spring Cap	FP-5150291		6-71 Engs.
24	Spring Cap	FP-5117563		6-71N Engs.

(continued on next page)

112 *Wheel Tractor* 6-71 In-Line (2-Valve Cyl. Head), 6-71N In-Line (4-Valve Cyl. Head) Engs. (cont.)

7.0L 426 OHV Diesel L6 (6-71), 4.25" Bore (Detroit Diesel Eng.)

CYL. HEAD & PARTS (cont.)

QTY	PUSH RODS	PART NO.	SIZE	DESCRIPTION
18	Push Rod	FP-5128640		
18	Push Rod Seat	FP-5123250		Lower
18	Push Rod Seat	FP-5150302		Upper; Flange type
18	Push Rod Spring	FP-5186858		.177" Wire diameter
18	Push Rod Retainer	FP-5150303		
18	Lock Nut	FP-5151601		Push rod; 5/16" - 24
18	Rect. or Square Seal	FP-5154472		Push rod

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-23500480		6-71 Engs.
24	Valve Stem Seal	FP-8921209		6-71N Engs.; Use w/FP-5129919 guide

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
6	Arm Assy.	FP-5148472		Exh. Left
6	Arm Assy.	FP-5148475		Exh. Right
6	Arm Assy.	FP-8923554		Injector
2	Rocker Shaft	FP-23500714		
12	Rocker Shaft Bracket Bolt	FP-5150325		1/2" - 13 x 4.250"
24	Arm Support	FP-5103903		
12	Rocker Bushing	FP-23517217		Large; .8755" ID, .9475" OD, .840" Length, .0360" Wall thickness
6	Rocker Bushing	FP-8924355		Large; Injector bushing
6	Rocker Bushing	FP-8924354		Small; Injector bushing
12	Rocker Bushing	FP-8924354		Small; Rocker bushing
12	Rocker Bushing	FP-5123700		Exh.; Clevis bushing; .5625" OD
6	Rocker Bushing	FP-5123700		Injector; Clevis bushing; .5625" OD
12	Follower Assy.	FP-8924439		
24	Cam Follower Roller Set	FP-8923814		Incl. pin & roller
12	Valve Bridge Adj. Screw	FP-5129101		5/16" - 24 x 1"
12	Valve Bridge	FP-5117565		
12	Valve Bridge Guide	FP-5117564		Press fit
12	Valve Bridge Guide	FP-51175646		Press fit w/.006" O/S
12	Valve Bridge Guide	FP-5196843		Threaded
12	Rocker Arm Clevis Pin	FP-5150314		Exh.
6	Rocker Arm Clevis Pin	FP-5150314		Injector

CAMSHAFT GROUP

QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Idler Gear Hub Assembly	FP-5124458		

QTY	CAMSHAFT TIMING	PART NO.	SIZE	DESCRIPTION
2	Camshaft Pulley Spacer	FP-5121071		

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft	FP-5149393		Advanced timing; R.H. rotation
12	Bolt	FP-443603		Cam guide; .250" x 20 x .750"
12	Lock Washer	FP-103319		Cam guide; .250"
12	Lock Washer	FP-103320		Cam guide; 5/16"
1	Prelube	55-400		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

ACCESSORY DRIVE

QTY	ACCESSORY DRIVE	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-5131329		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Seal Ring	FP-5104701		Viton®
6	Injector Hole Tube Kit	FP-8925981		Viton®

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
2	Cylinder Cover Gasket	FP-23505518		End plate

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-23512676		High block; Compl., Bi-directional front & rear crank seals not incl.; Valve cover gskts. not incl.
1	Complete Overhaul Gasket Set	FP-23512676WS		High block; Incl. seals; Compl., Incl. bi-directional front & rear crank seals; valve cover gskts. not incl.
1	Complete Overhaul Gasket Set	FP-5192923		Low block
1	Kit Gasket Set	260-1256		In Frm.; Valve cover gskts. not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
2	Cam Brg.	FP-5111423	*STD*	Position Front & Rear; Balance shaft brg.; From Ser. No. 6A-57745; Grooved

(continued on next page)

Wheel Tractor **6-71 In-Line (2-Valve Cyl. Head), 6-71N In-Line (4-Valve Cyl. Head) Engs.** **112**
7.0L 426 OHV Diesel L6 (6-71), 4.25" Bore (Detroit Diesel Eng.) **(cont.)**

ENGINE BLOCK & PARTS (cont.)

QTY	CAM BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
2	Cam Brg.	**FP-5111423**	*STD*	Position Front & Rear; Cam brg.; From Ser. No. 6A-57745; Grooved
5	Cam Brg.	**FP-5196026**	*STD*	Position Inter.; w/o Steel bushing in ctr. hole; Aluminum Blocks only
5	Cam Brg.	**FP-5196022**	*STD*	Position Inter.; W/Steel bushing in ctr. hole

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Spacer	**FP-23507306**		Front; 2.50" ID x 2.81" Length
1	Oil Seal Spacer	**FP-5192496**		Rear; Exc. for double lip seal
1	Oil Seal	**FP-5115454**		Single Lip, Std.
1	Oil Seal	**FP-5143108**		Submersible

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-5196927**		Double Lip; O/S Shaft Dia. 4.812"
1	Oil Seal	**FP-5127821**		Double Lip, Std.; Shaft Dia. 4.687"
1	Oil Seal	**FP-5197860**		Single lip; O/S Shaft dia. 4.812"
1	Oil Seal	**FP-5114335**		Single Lip, Std.; Shaft Dia. 4.687"
1	Redi-Sleeve	**FP-23507225**		Shaft dia. 4.812"

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
7	Plain Main Brg.	**FP-5192874**	*STD*	
7	Plain Main Brg.	**FP-5192875**	*2*	
7	Plain Main Brg.	**FP-5192876**	*10*	
7	Plain Main Brg.	**FP-5192877**	*20*	
7	Plain Main Brg.	**FP-5192878**	*30*	
7	Plain Main Brg.	**FP-5193738**	*40*	
7	Plain Main Brg.	**FP-5193739**	*50*	
1	Thrust Washer Set	**FP-5159353S**	*STD*	Position Rear
4	Thrust Washer	**FP-5159353**	*STD*	Position Rear
4	Thrust Washer	**FP-5160542**	*5*	Position Rear
4	Thrust Washer	**FP-5192111**	*10*	Position Rear

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-5102316**	*5*	Flanged, .810" port length
6	Liner w/o Sealing Ring	**FP-5102317**	*10*	Flanged, .810" port length
6	Liner w/o Sealing Ring	**FP-5102318**	*20*	Flanged, .810" port length
6	Liner w/o Sealing Ring	**FP-5102319**	*30*	Flanged, .810" port length
6	Liner w/o Sealing Ring	**FP-5193732**	*5*	Flanged, 1.050" port length
6	Liner w/o Sealing Ring	**FP-5193733**	*10*	Flanged, 1.050" port length
6	Liner w/o Sealing Ring	**FP-5193734**	*20*	Flanged, 1.050" port length
6	Liner w/o Sealing Ring	**FP-5193735**	*30*	Flanged, 1.050" port length
6	Liner w/o Sealing Ring	**FP-23504931**	*STD*	No. 1 Bore; Flanged, .810" port length
6	Liner w/o Sealing Ring	**FP-23502020**	*STD*	No. 1 Bore; Flanged, 1.050" port length
6	Liner w/o Sealing Ring	**FP-23504932**	*STD*	No. 2 Bore; Flanged, .810" port length
6	Liner w/o Sealing Ring	**FP-23502021**	*STD*	No. 2 Bore; Flanged, 1.050" port length
6	Liner w/o Sealing Ring	**FP-23504933**	*STD*	No. 3 Bore; Flanged, .810" port length
6	Liner w/o Sealing Ring	**FP-23502022**	*STD*	No. 3 Bore; Flanged, 1.050" port length
6	Liner w/o Sealing Ring	**FP-23504934**	*STD*	No. 4 Bore; Flanged, .810" port length
6	Liner w/o Sealing Ring	**FP-23504936**	*STD*	No. 4 Bore; Flanged, 1.050" port length
6	Cylinder Kit Complete	**FP-235229495**	*5*	w/Cross Head style piston; 1.050" port length sleeve
6	Cylinder Kit Complete	**FP-23522951**	*10*	w/Cross Head style piston; 1.050" port length sleeve
6	Cylinder Kit Complete	**FP-23522525**	*20*	w/Cross Head style piston; 1.050" port length sleeve
6	Cylinder Kit Complete	**FP-2352294930**	*30*	w/Cross Head style piston; 1.050" port length sleeve
6	Cylinder Kit Complete	**FP-235053095**	*5*	6-71 Engs.; w/Trunk style piston; .810" port length sleeve
6	Cylinder Kit Complete	**FP-2350530910**	*10*	6-71 Engs.; w/Trunk style piston; .810" port length sleeve
6	Cylinder Kit Complete	**FP-2350530920**	*20*	6-71 Engs.; w/Trunk style piston; .810" port length sleeve
6	Cylinder Kit Complete	**FP-2350530930**	*30*	6-71 Engs.; w/Trunk style piston; .810" port length sleeve
6	Cylinder Kit Complete	**FP-235053065**	*5*	6-71N Engs.; w/Trunk style piston; 1.05" port length sleeve
6	Cylinder Kit Complete	**FP-5149263**	*10*	6-71N Engs.; w/Trunk style piston; 1.05" port length sleeve
6	Cylinder Kit Complete	**FP-5149264**	*20*	6-71N Engs.; w/Trunk style piston; 1.05" port length sleeve
6	Cylinder Kit Complete	**FP-2350530630**	*30*	6-71N Engs.; w/Trunk style piston; 1.05" port length sleeve
6	Cylinder Kit Complete	**FP-20022**	*STD*	No. 1 Bore; w/Cross Head style piston
6	Cylinder Kit Complete	**FP-20014**	*STD*	No. 1 Bore; 6-71 Engs.; w/Trunk style piston
6	Cylinder Kit Complete	**FP-20011**	*STD*	No. 1 Bore; 6-71N Engs.; w/Trunk style piston; 1.05" port length sleeve
6	Cylinder Kit Complete	**FP-23522949**	*STD*	No. 2 Bore; w/Cross Head style piston; 1.050" port length sleeve
6	Cylinder Kit Complete	**FP-23505308**	*STD*	No. 2 Bore; 6-71 Engs.; w/Trunk style piston; .810" port length sleeve

(continued on next page)

112 *Wheel Tractor* 6-71 In-Line (2-Valve Cyl. Head), 6-71N In-Line (4-Valve Cyl. Head) Engs. (cont.)

7.0L 426 OHV Diesel L6 (6-71), 4.25" Bore (Detroit Diesel Eng.)

CYLINDER COMPONENTS (cont.)

QTY	LINERS (cont.)	PART NO.	SIZE	DESCRIPTION
6	Cylinder Kit Complete	FP-23505305	STD	No. 2 Bore; 6-71N Engs.; w/Trunk style piston; 1.05" port length sleeve
6	Cylinder Kit Complete	FP-23522947	STD	No. 3 Bore; w/Cross Head style piston; 1.050" port length sleeve
6	Cylinder Kit Complete	FP-23505309	STD	No. 3 Bore; 6-71 Engs.; w/Trunk style piston
6	Cylinder Kit Complete	FP-23505306	STD	No. 3 Bore; 6-71N Engs.; w/Trunk style piston; 1.05" port length sleeve
6	Cylinder Kit Complete	FP-23522521	STD	No. 4 Bore; w/Cross Head style piston; 1.050" port length sleeve
6	Cylinder Kit Complete	FP-235053091	1	No. 4 Bore; 6-71 Engs.; w/Trunk style piston; .810" port length sleeve
6	Cylinder Kit Complete	FP-5149261	STD	No. 4 Bore; 6-71N Engs.; w/Trunk style piston; 1.05" port length sleeve
6	Liner Kit w/o Sleeve	FP-LCK5309		6-71 Engs.; 17.5:1 C.R.; w/Trunk style piston
6	Liner Kit w/o Sleeve	FP-LCK5306		6-71N Engs.; 18.7:1 C.R.; w/Trunk style piston
6	O-Ring	FP-8922221		w/Cross Head style piston
6	Cntr. Bore Insert	FP-5199871		.0015" Thicker than std., for .010-.030 O/S sleeves
6	Cntr. Bore Insert	FP-5148399		.0015" Thicker than std., for std.-.005 O/S sleeves
6	Cntr. Bore Insert	FP-5148440		.0015" Thinner than std., for std.-.005 O/S sleeves
6	Cntr. Bore Insert	FP-5194073		.0035 Thinner than std., for std.-.005 O/S sleeves
6	Cntr. Bore Insert	FP-5194163		.0040 Thinner than std., for .010-.030 O/S sleeves
6	Cntr. Bore Insert	FP-5194164		.0080" Thinner than std., for .010-.030 O/S sleeves
6	Cntr. Bore Insert	FP-5193316		Std. thickness (.1795-.1800), for .010-.030 O/S sleeves
6	Cntr. Bore Insert	FP-5184484		Std. thickness (.1795-.1800), for std.-.005 O/S sleeves

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Kit w/Pin & Retainers	FP-23522497	STD	w/Cross Head style piston
6	Piston With Retainers	FP-5189054	STD	6-71 Engs.; w/Trunk style piston; Dish Head, Cast Iron; 4-1/8, 2-3/16 Ring Groove
6	Piston With Retainers	FP-5149234	STD	6-71N Engs.; w/Trunk style piston
6	Piston Dome Kit	FP-23522475		17.0:1 C.R.; w/Cross Head style piston
6	Piston Dome Kit	FP-23522535		18.7:1 C.R.; w/Cross Head style piston
6	Crosshead Piston Dome	FP-23521992	STD	17.0:1 C.R.; w/Cross Head style piston
6	Crosshead Piston Dome	FP-23522026	STD	18.7:1 C.R.; w/Cross Head style piston
6	Piston Skirt	FP-23522070	STD	w/Cross Head style piston
6	Pin	FP-5144744	STD	w/Cross Head style piston; Nut plate type
6	Pin	FP-5101120	STD	w/Cross Head style piston; Slipper type
6	Pin	FP-5188406	STD	w/Trunk style piston
6	Pin	FP-5144495	STD	w/Trunk style piston; Drilled
6	Pin	FP-5130881	STD	w/Trunk style piston; Non-drilled
12	Piston Pin Retainer	FP-5180250		w/Cross Head style piston
12	Piston Pin Retainer	FP-5188405		w/Trunk style piston
12	Piston Pin Bolt	FP-5148373		7/16" - 20 x 2.00" Length
12	Piston Pin Bolt Spacer	FP-5144846		w/Cross Head style piston
6	Piston Pin Slipper Bearing	FP-23501687		w/Cross Head style piston; Slipper type design - 1 per cyl.
12	Pin Bushing	FP-5157274		w/.015" extra ID bore stock
12	Pin Bushing	FP-2409Y		w/1.5020" I.D., 1.7510" O.D., .7600" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-5132383		.4375" x 20 x 3.52"
12	Con. Rod Nut	FP-5117629		.4375" x 20
6	Rod Pair	FP-23511129	STD	Upper brg. w/2 oil slots
6	Rod Pair	FP-23511131	2	Upper brg. w/2 oil slots
6	Rod Pair	FP-23511133	10	Upper brg. w/2 oil slots
6	Rod Pair	FP-23511135	20	Upper brg. w/2 oil slots
6	Rod Pair	FP-23511137	30	Upper brg. w/2 oil slots
6	Rod Pair	FP-5193741	40	Upper brg. w/2 oil slots

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-23522955	STD	w/Cross Head style piston; Std. gap Fire Ring
6	Ring Set Single Cylinder	FP-23522954	STD	w/Cross Head style piston; Wide gap Fire Ring
6	Ring Set Single Cylinder	FP-5193477	STD	6-71 Engs.; w/Trunk style piston; 4-1/8, 2-3/16 (1 cyl. set w/4 Chrome rings)
6	Ring Set Single Cylinder	FP-23514970	STD	6-71N Engs.; w/Trunk style piston; 4-.084, 2-3/16 (1 cyl. Set)
6	Compression Ring	FP-8924084		w/Cross Head style piston; Std. gap Fire Ring
6	Compression Ring	FP-8924083		w/Cross Head style piston; Wide gap Fire Ring
12	Compression Ring	FP-8926351		w/Cross Head style piston; 2nd & 3rd grooves
24	Compression Ring	FP-5185325		w/Trunk style piston
18	Compression Ring	FP-5102648		6-71N Engs.; Trunk style piston
12	Ring, Oil Control Set	FP-23522534		w/Cross Head style piston
6	Ring, Oil Control Set	FP-23514965		6-71N Engs.; Trunk style piston; Set for one piston

(continued on next page)

Wheel Tractor 6-71 In-Line (2-Valve Cyl. Head), 6-71N In-Line (4-Valve Cyl. Head) Engs. 112 (cont.)

7.0L 426 OHV Diesel L6 (6-71), 4.25" Bore (Detroit Diesel Eng.)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-671XH		w/Cross Head style piston; Upper brg. w/2 oil slots
1	In-Frame Overhaul Kit	FP-6712V		6-71 Engs.; w/Trunk style piston; Upper brg. w/2 oil slots
1	In-Frame Overhaul Kit	FP-671NA		6-71N Engs.; w/Trunk style piston; Upper brg. w/2 oil slots
1	Complete Overhaul Kit	FP-671XHOH		w/Cross Head style piston; Upper brg. w/2 oil slots; Incl. High block gskts.
1	Complete Overhaul Kit	FP-6712VOH		6-71 Engs.; w/Trunk style piston; Upper rod brg. w/2 oil slots; Incl. High block & Low block gskt. sets
1	Complete Overhaul Kit	FP-671NAOH		6-71N Engs.; w/Trunk style piston; Upper brg. w/2 oil slots; Incl. High block gskts.

Combine 6466D Eng. *Wheel Tractor* 6466D Eng. 113

7.6L 466 OHV Diesel L6 (Standard), 4.5625" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R49866		Rocker cover codes 1101, 1102; From Ser. No. 67,685
1	Head Gasket	FP-RE47336		w/O.E. thin black gskt.
1	Head Gasket	FP-R520706		From Ser. No. 67,685
1	Head Set	FP-AR100632		w/O.E. thick black w/blue strips gskt. marked R66065; From Ser. No. 67,685

QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
11	Head Bolt	FP-R88043		w/Block marked R87554, R87555, R87556, R87557, R87559, R87562, R87563, R87564; From Ser. No. 318,404; 5.250" length
8	Head Bolt	FP-R88044		w/Block marked R87554, R87555, R87556, R87557, R87559, R87562, R87563, R87564; From Ser. No. 318,404; 6.250" length
7	Head Bolt	FP-R88045		w/Block marked R87554, R87555, R87556, R87557, R87559, R87562, R87563, R87564; From Ser. No. 318,404; 7.250" length
6	Head Bolt	FP-R88042		To Ser. No. 318,403; 3.250" length
5	Head Bolt	FP-R88043		To Ser. No. 318,403; 5.250" length
8	Head Bolt	FP-R88044		To Ser. No. 318,403; 6.250" length
7	Head Bolt	FP-R88045		To Ser. No. 318,403; 7.250" length

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R43883	*STD*	1 groove; Chrome plated stem; 1.9020" Head Dia., .3720" Stem Dia., 6.1510" O.A.L.
6	Intake	FP-R45003	*3*	1 groove; Chrome plated stem; 1.9020" Head Dia., .3750" Stem Dia., 6.1510" O.A.L.
6	Intake	FP-R45005	*30*	1 groove; Chrome plated stem; 1.9020" Head Dia., .4020" Stem Dia., 6.1510" O.A.L.
6	Exhaust	FP-R43679	*STD*	1 groove; Chrome plated stem; 1.7150" Head Dia., .3720" Stem Dia., 6.1330" O.A.L.
6	Exhaust	FP-R43787	*3*	1 groove; Chrome plated stem; 1.7150" Head Dia., .3750" Stem Dia., 6.1330" O.A.L.
6	Exhaust	FP-R43788	*15*	1 groove; Chrome plated stem; 1.7150" Head Dia., .3870" Stem Dia., 6.1330" O.A.L.
6	Exhaust	FP-R43789	*30*	1 groove; Chrome plated stem; 1.7150" Head Dia., .4020" Stem Dia., 6.1330" O.A.L.
24	Keeper	FP-T20077		From Ser. No. 215,000; 1 groove; Square cut key groove; Hardened
24	Keeper	FP-41339		1 groove; Square cut key groove
24	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R43681	*STD*	1.7555" OD, 1.5000" ID, .2480" Depth
6	Int.	FP-R43680	*STD*	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-RE11410		Exh.; From Ser. No. 215,000
1	Oil Filler Cap Gasket	FP-T20328		

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	FP-R87627		Int.; O-Ring type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3004, 3005, 3011, 3016

(continued on next page)

113 *Combine* 6466D Eng. *Wheel Tractor* 6466D Eng.
(cont.) 7.6L 466 OHV Diesel L6 (Standard), 4.5625" Bore

ELECTRICAL (cont.)

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Delco-Remy Nos. 1101268, 1101345, 1103128, 1105174, 1105422; Codes 3103, 3105, 3114; 72 amp alternator; 78 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. 70D42076T02; Code 3101; 12 Volt, 65 amp alternator

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	Speed/Hour Meter Gasket	FP-R62410		w/Tach. drive code 3303

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	FP-R83021		One Exh. hole
2	Exhaust Manifold Gasket	FP-R83020		Two Exh. holes
3	Intake Manifold Gasket	FP-R50397		From Ser. No. 267,638 to Ser. No. 300,411; w/Int. manifold R52288; Two Int. holes
3	Intake Manifold Gasket	FP-R50397		From Ser. No. 300,412; w/Int. manifold R81927; Two Int. holes
3	Intake Manifold Gasket	FP-R26297		To Ser. No. 26637; w/Int. manifold R46411

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	FP-R26058		
1	Timing Gear Cover Gasket	FP-R50390		Access cover
1	Timing Gear Cover Gasket	FP-R50353		Timing cover code 2001; To Ser. No. 263,923

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft	FP-R71530		Cam marked R65565, R71530
1	Camshaft Plug	FP-R26115		
12	Lifter	FP-R52773		
1	Prelube	55-400		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

QTY	CAMSHAFT KIT	PART NO.	SIZE	DESCRIPTION
1	Cam/Lifter Kit	FP-AR100386		Cam marked R65565, R71530; From Ser. No. 215,000; Incl. (12) FP-R52773, (1) FP-R71530

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Washer	FP-R64840		Injector nozzle; Steel
6	Fuel Injector Nut	FP-R79604		Inj. pump; Line codes 1602, 1603
6	Fuel Line Connector Gasket	FP-R59294		Leak-off connector washer; From Ser. No. 67,685; Alum.
12	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1602, 1603

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-AR57264		Fuel pump codes 1602, 1603
6	O-Ring	FP-R77551		Leak-off fitting to nozzle; Viton®
6	O-Ring	FP-R51603		Fuel nozzle

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R50411		w/Pump housing marked R50408
1	Water Pump Repair/Rebuild Kit	FP-925750411		w/Pump housing marked R50408
1	Ball Brg.	FP-JD10171		Front bearing; w/Pump housing marked R71224
1	Ball Brg.	FP-JD10113		Rear bearing; w/Pump housing marked R71224
1	Water Pump Housing Gasket	FP-R50410		w/Pump housing marked R50408
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked R50408
1	Water Pump Spacer Gasket	FP-R42406		w/Pump housing marked R50408
1	O-Ring	FP-R71596		Pump cover; w/Pump housing marked R71224, R83561
2	O-Ring	FP-R47153		Water manifold; Water manifold code 3905
1	Shaft & Bearing Assembly	FP-JD9257		w/Pump housing marked R58713
1	Water Pump Hub	FP-JD10058		w/Fan Hub bearing codes 2300, 2314

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR72852		Thermostat codes 2101, 2103; Thermostat housing code 3905; 192 Deg.
2	Thermostat	FP-AR48675		Thermostat codes 2101, 2103; 180 Deg.
1	Thermostat Cover Gasket	FP-R46479		Thermostat cover codes 2101, 2103; Two hole
1	Therm. Hsg. - Water Mfld. Gsk	FP-R86062		Thermostat housing to cyl. head

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	FP-R88397		
1	Cyl. Block Water Hole Cvr Gsk	FP-R43595		Cyl. head water opening cover gskt.

(continued on next page)

Combine **6466D Eng.** *Wheel Tractor* **6466D Eng.** **113**
7.6L 466 OHV Diesel L6 (Standard), 4.5625" Bore **(cont.)**

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	**FP-R71918**		
1	Oil Pan Gasket	**FP-R49377**		w/Alum. pan; Oil pan codes 1906, 1908; From Ser. No. 67,685
1	Oil Pan Gasket Set	**FP-PG400PS**		From Ser. No. 67,685; w/Cast iron oil pan
1	Oil Pan Gasket Set	**FP-PG401PS**		From Ser. No. 67,685; w/Cast iron oil pan
1	Oil Pan Gasket Set	**FP-PG403PS**		From Ser. No. 67,685; w/Cast iron oil pan
2	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"
1	O-Ring	**FP-U13639**		Cooler bypass tube inlet seal; To Ser. No. 169,336; 1.475" X .118"

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	**FP-PG466DS**		
1	Complete Overhaul Gasket Set	**FP-AR100638**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-AR100638WS**		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve; Timing cover seal & wear sleeve not incl.
1	Kit Gasket Set	**260-1400**		Compl.; Rear main brg. seal incl. & wear sleeve incl.; Timing cover seal & wear sleeve incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-4R46903**	*STD*	
4	Cam Brg.	**FP-R46903**	*STD*	

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	**FP-AR55394**		From Ser. No. 335,846
1	Oil Cooler Installation Kit	**FP-58952**		
4	O-Ring	**FP-R47153**		Cooler tube
1	Oil Cooler Bypass Gasket	**FP-R65055**		From Ser. No. 676,685
1	Oil Cooler Cover Gasket	**FP-R50419**		

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE53422**		Gears incl.
1	Crankshaft	**FP-AR96189**		Gears not incl.
1	Oil Seal Kit	**FP-SK49025**		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE22764**		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK400L4**	*STD*	w/5 main brgs.
1	Main Set	**FP-MBK400L410**	*10*	w/5 main brgs.
1	Main Set	**FP-MBK400L420**	*20*	w/5 main brgs.
1	Main Set	**FP-MBK400L6**	*STD*	w/7 main brgs.
1	Main Set	**FP-MBK400L610**	*10*	w/7 main brgs.
1	Main Set	**FP-MBK400L620**	*20*	w/7 main brgs.
1	Main Set	**FP-MBK400L630**	*30*	w/7 main brgs.
6	Plain Main Brg.	**FP-AR74814**	*STD*	
6	Plain Main Brg.	**FP-AR74816**	*10*	
6	Plain Main Brg.	**FP-AR74817**	*20*	
6	Plain Main Brg.	**FP-AR74818**	*30*	
1	Flanged Main Brg.	**FP-AR77748**	*STD*	
1	Flanged Main Brg.	**FP-AR77750**	*10*	
1	Flanged Main Brg.	**FP-AR77751**	*20*	
1	Flanged Main Brg.	**FP-AR77752**	*30*	
1	Thrust Washer Set	**FP-AR77747**	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump Spring	**FP-R26151**		
2	O-Ring	**FP-R71732**		Pump; Pump codes 1904, 1906, 1908; w/Pump marked R62946, R124328; From Ser. No. 169,337
4	O-Ring	**FP-R71732**		Pump; Pump codes 1904, 1908; w/Pump marked R57556; To Ser. No. 169,336
1	O-Ring	**FP-R71732**		Pump to block; Block codes 4602, 4603; From Ser. No. 169,337
1	O-Ring	**FP-R495R**		Ventilator tube; Smooth
1	Oil Pump Cover Gasket	**FP-R52049**		Oil pump codes 1904, 1907, 1908
1	Oil Pump Intake Gasket	**FP-R100569**		w/Oil pump housing marked R124328
1	Rect. or Square Seal	**FP-R43660**		Filter to housing; w/housing marked R67409, R71484, R84946
1	Oil Filter to Block Gasket	**FP-R43774**		w/Filter housing marked R67409, R71484, R84946

(continued on next page)

113 *Combine* **6466D Eng.** *Wheel Tractor* **6466D Eng.**
(cont.) 7.6L 466 OHV Diesel L6 (Standard), 4.5625" Bore

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R87858**		
6	Liner w/Sealing Rings	**FP-R87858WS**		
6	Cylinder Kit Complete	**FP-AR83610**	*STD*	w/Block marked R65693, R71688, R72132, R78505, R87555, R87556; w/Con. Rod marked R41423, R58882, R66922
6	Cyl. Liner Sealing Ring Kit	**FP-AR98850**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-AR85629**		
6	Piston Kit w/Pin & Retainers	**FP-AR85629WP**	*STD*	
6	Pin	**FP-R41425**		
12	Piston Pin Retainer	**FP-E1343FN**		
6	Pin Bushing	**FP-R42173**		w/Con. Rod marked R41423, R58882, R66922; 1.627" ID, 1.8155" OD, 1.500" O.A.L.
6	Pin Bushing	**FP-R60724**		w/1.875" ID, 2.0622" OD, 1.657" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R66452**		w/Con. Rod marked R41423, R58882, R66922; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	**FP-AR45723**	*STD*	
6	Rod Pair	**FP-AR46396**	*10*	
6	Rod Pair	**FP-AR46397**	*20*	
6	Rod Pair	**FP-AR46398**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-AR87753**	*STD*	1-5/32, 1-3/32, 1-3/16 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-466DIFK**		w/Block marked R65693, R71688, R72132, R78505, R87555, R87556; w/Con. Rod marked R41423, R58882, R66922; To Ser. No. 278,680; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-466DOHK**		w/Block marked R65693, R71688, R72132, R78505, R87555, R87556; w/Con. Rod marked R41423, R58882, R66922; To Ser. No. 278,680; Incl. Torque-To-Yield con. rod bolts

114 *Combine* **6466A, 6466T Engs.** *Cotton Picker* **6466A Eng.** *Corn Picker* **6466A, 6466T Engs.** *Harvester* **6466A, 6466T Engs.** *Grader* **6466A, 6466T Engs.** *Loader* **6466A, 6466T Engs.** *Scraper* **6466A, 6466T Engs.** *Wheel Tractor* **6466A, 6466T Engs.** *Crawler Tractor* **6466A, 6466T Engs.** *Forestry Tractor* **6466A, 6466T Engs.** *Excavator* **6466A, 6466T Engs.** *Skidder* **6466A, 6466T Engs.** *Compactor* **6466A, 6466T Engs.** *Dozer* **6466A, 6466T Engs.** *Feller Buncher* **6466A, 6466T Engs.** *Forage Harvester* **6466A Eng.**
7.6L 466 OHV Turbo-Diesel L6 (Standard), 4.5625" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R49866**		Rocker cover codes 1101, 1102, 1103
1	Head Gasket	**FP-RE47336**		
1	Head Set	**FP-AR98851**		

QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
11	Head Bolt	**FP-R88043**		w/Block marked R87554, R87555, R87556, R87559, R87562, R87563, R87564; From Ser. No. 318,404; 5.250" length
8	Head Bolt	**FP-R88044**		w/Block marked R87554, R87555, R87556, R87559, R87562, R87563, R87564; From Ser. No. 318,404; 6.250" length
7	Head Bolt	**FP-R88045**		w/Block marked R87554, R87555, R87556, R87559, R87562, R87563, R87564; From Ser. No. 318,404; 7.250" length
6	Head Bolt	**FP-R88042**		To Ser. No. 317,676; 3.250" length
5	Head Bolt	**FP-R88043**		To Ser. No. 317,676; 5.250" length
8	Head Bolt	**FP-R88044**		To Ser. No. 317,676; 6.250" length
7	Head Bolt	**FP-R88045**		To Ser. No. 317,676; 7.250" length

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-R50358**	*STD*	From Ser. No. 335,846; 1 groove; 1.7150" Head Dia., .3720" Stem Dia., 6.1920" O.A.L.
6	Intake	**FP-R55055**	*3*	From Ser. No. 335,846; 1 groove; 1.7150" Head Dia., .3750" Stem Dia., 6.1920" O.A.L.
6	Intake	**FP-R43914**	*STD*	1 groove; Chrome plated stem; 1.7500" Head Dia., .3720" Stem Dia., 6.1280" O.A.L.
6	Intake	**FP-R84618**	*STD*	1 groove; Chrome plated stem; 2.0080" Head Dia., .3730" Stem Dia., 6.0600" O.A.L.

(continued on next page)

Combine **6466A, 6466T Engs.** *Cotton Picker* **6466A Eng.** *Corn Picker* **6466A, 6466T Engs.** *Harvester* **6466A, 6466T Engs.** *Grader* **6466A, 6466T Engs.** *Loader* **6466A, 6466T Engs.** *Scraper* **6466A, 6466T Engs.** *Wheel Tractor* **6466A, 6466T Engs.** *Crawler Tractor* **6466A, 6466T Engs.** *Forestry Tractor* **6466A, 6466T Engs.** *Excavator* **6466A, 6466T Engs.** *Skidder* **6466A, 6466T Engs.** *Compactor* **6466A, 6466T Engs.** *Dozer* **6466A, 6466T Engs.** *Feller Buncher* **6466A, 6466T Engs.** *Forage Harvester* **6466A Eng.**

7.6L 466 OHV Turbo-Diesel L6 (Standard), 4.5625" Bore

114 (cont.)

CYL. HEAD & PARTS (cont.)

QTY	VALVE (cont.)	PART NO.	SIZE	DESCRIPTION
6	Exhaust	**FP-R50357**	*STD*	From Ser. No. 335,846; 1 groove; Chrome plated stem; 1.7150" Head Dia., .3720" Stem Dia., 6.2080" O.A.L.
24	Keeper	**FP-41339**		1 groove; Square cut key groove
24	Keeper	**FP-T20077**		1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	**VK-138B**		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	**FP-R50356**	*STD*	From Ser. No. 335,846
6	Exh.	**FP-R55061**	*10*	From Ser. No. 335,846
6	Int.	**FP-R78702**	*STD*	1.7550" OD, 1.5000" ID, .2160" Depth
6	Int.	**FP-R82508**	*10*	1.7650" OD, 1.5000" ID, .2160" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	**FP-R26125**		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	**FP-RE11410**		Exh. & Int.
1	Oil Filler Cap Gasket	**FP-T20328**		6466A Engs.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	**FP-R87627**		Int.; O-Ring type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	**FP-R53108**		3-Hole mount; Starting motor codes 3004, 3005. 3011, 3016; To Ser. No. 67,684

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	**FP-JD9449**		Front; Delco-Remy Nos. 1101268, 1101345, 1103128, 1105174, 1105422, 1105510; Codes 3102, 3103, 3105, 3114; 12 Volt, 63 amp alternator; 72 amp alternator; 78 amp alternator
1	Ball Brg.	**FP-JD9449**		Front; Motorola No. 70D42076T02; Code 3101; 12 Volt, 37 amp alternator; 65 amp alternator
1	Ball Brg.	**FP-JD9449**		Front; Motorola Nos. 70D42179T02, 70D44811E01; Code 3106; 24 Volt, 45 amp alternator; From Ser. No. 296,082

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	Speed/Hour Meter Gasket	**FP-R62410**		w/Tach. drive code 3303

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	**FP-R83021**		One Exh. hole
2	Exhaust Manifold Gasket	**FP-R83020**		Two Exh. holes
3	Intake Manifold Gasket	**FP-R130573**		w/Int. manifold R134429, R134432
3	Intake Manifold Gasket	**FP-R50397**		From Ser. No. 299,712 to Ser. No. 324,348; w/Int. manifold R81927; Two Int. holes
3	Intake Manifold Gasket	**FP-R130573**		From Ser. No. 324,349; w/Int. manifold R89790
3	Intake Manifold Gasket	**FP-R50397**		To Ser. No. 299,711; w/Int. manifold R52288; Two Int. holes

QTY	AIR INTAKE	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R50406**		Manifold coupling; Small end; From Ser. No. 67,684
1	O-Ring	**FP-R50406**		Manifold coupling; Small end; Manifold codes 1705, 1707, 1719, 1726, 1730; To Ser. No. 67,684

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	**FP-R26058**		
1	Timing Gear Cover Gasket	**FP-R50390**		Access cover
1	Timing Gear Cover Gasket	**FP-R50353**		Timing cover code 2001; To Ser. No. 263,923

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft	**FP-R71529**		
1	Camshaft	**FP-R71530**		Model 4440, 4640 From Ser. No. 570,601; Model 4840, 8430 From Ser. No. 572,027; Model 4250, 4450, 4650, 4850, 6620, 6622, 7720, 8450, 8820
1	Camshaft Plug	**FP-R26115**		
12	Lifter	**FP-R52773**		

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114 (cont.) *Combine* **6466A, 6466T Engs.** *Cotton Picker* **6466A Eng.** *Corn Picker* **6466A, 6466T Engs.** *Harvester* **6466A, 6466T Engs.** *Grader* **6466A, 6466T Engs.** *Loader* **6466A, 6466T Engs.** *Scraper* **6466A, 6466T Engs.** *Wheel Tractor* **6466A, 6466T Engs.** *Crawler Tractor* **6466A, 6466T Engs.** *Forestry Tractor* **6466A, 6466T Engs.** *Excavator* **6466A, 6466T Engs.** *Skidder* **6466A, 6466T Engs.** *Compactor* **6466A, 6466T Engs.** *Dozer* **6466A, 6466T Engs.** *Feller Buncher* **6466A, 6466T Engs.** *Forage Harvester* **6466A Eng.**
7.6L 466 OHV Turbo-Diesel L6 (Standard), 4.5625" Bore

CAMSHAFT GROUP (cont.)

QTY	CAMSHAFT/LIFTER (cont.)	PART NO.	SIZE	DESCRIPTION
1	Prelube	55-400		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

QTY	CAMSHAFT KIT	PART NO.	SIZE	DESCRIPTION
1	Cam/Lifter Kit	FP-AR100385		Incl. (12) FP-R52773, (1) FP-R71529

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Washer	FP-R64840		Injector nozzle; Nozzle codes 1601, 1606, 1608, 1610, 1625, 1626, 1630, 1631, 1640, 1657, 1658, 1661, 1663; Steel
6	Fuel Injector Nut	FP-R79604		Inj. pump; Line codes 1606, 1608, 1610, 1625, 1626, 1630, 1631, 1640, 1661, 1663
18	Clamp	FP-R34766		Pump codes 1601, 1606, 1608; To Ser. No. 67,684
6	Fuel Line Connector Gasket	FP-R59294		Leak-off connector washer; w/Connector R59293, R83558; Alum.
6	Fuel Line Connector Gasket	FP-R59294		Leak-off connector washer; From Ser. No. 312,216; w/Connector R59293, R83558; Alum.
12	Washer Type Seal	FP-R51936		6466A Engs.; Leak-off & return line seals; Nozzle code 1606; To Ser. No. 301,495
14	Washer Type Seal	FP-R51936		6466A Engs.; Leak-off & return line seals; Nozzle codes 1606, 1608, 1610, 1626, 1629, 1630, 1631; To Ser. No. 301,495
12	Washer Type Seal	FP-R51936		6466A Engs.; RePower Engs.; Leak-off & return line seals; Nozzle codes 1657, 1658
14	Washer Type Seal	FP-R51936		6466A; Leak-off & return line seals; Nozzle codes 1610, 1625, 1626, 1640, 1661, 1643; From Ser. No. 300,713
12	Washer Type Seal	FP-R51936		6466T Engs.; Leak-off & return line seals; Nozzle codes 1601, 1604, 1610, 1657, 1658; To Ser. No. 301,473

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
6	O-Ring	FP-R77551		6466A Engs.; Leak-off fitting to nozzle; Nozzle codes 1606, 1608, 1610, 1625, 1626, 1630, 1631, 1640, 1661, 1663; Viton®
6	O-Ring	FP-R77551		6466T Engs.; Leak-off fitting to nozzle; RePower Engs.; Nozzle codes 1657, 1658; Viton®
6	O-Ring	FP-R51603		Fuel nozzle; Injector nozzle codes 1601, 1606, 1608; w/Bosch injector; To Ser. No. 67,684
1	O-Ring	FP-R375R		Fuel check valve

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		From Ser. No. 67,685
1	Turbocharger Mounting Gasket	FP-R43751		
1	Turbocharger Oil Supply Gskt.	FP-R97348		Turbo code 6501; To Ser. No. 296,156

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Shaft	FP-R82052		6466A Engs.; w/Pump housing marked R69945
1	Water Pump Shaft	FP-R70965		6466A Engs.; Water pump code 2014; w/Pump marked R71224, R83561; Gear driven pump
1	Water Pump Impeller	FP-R71225		w/Pump housing marked R71224, R83561
1	Water Pump Impeller	FP-R77388		6466A Engs.; w/Pump housing marked R61439; From Ser. No. 211,132
1	Water Pump Impeller	FP-R50411		6466T Engs.; w/Pump housing marked R50408
1	Water Pump Repair/Rebuild Kit	FP-RE69846		w/Pump housing marked R71224; Gear driven pump
1	Water Pump Repair/Rebuild Kit	FP-RE69847		w/Pump housing marked R83561; Gear driven pump
1	Water Pump Repair/Rebuild Kit	FP-AR103451		6466A Engs.; w/Pump housing marked R69945
1	Water Pump Repair/Rebuild Kit	FP-RE10967		6466A Engs.; Pump code 2001
1	Water Pump Repair/Rebuild Kit	FP-925750411		6466T Engs.; w/Pump housing marked R50408
1	Water Pump Repair/Rebuild Kit	FP-935550411		6466T Engs.; w/Pump housing marked R54955
2	Ball Brg.	FP-JD10329		Fan hub shaft bearing
1	Ball Brg.	FP-JD10171		Front bearing; 6466A Engs.; w/Pump housing marked R71224
1	Ball Brg.	FP-JD10363		Gear driven front bearing; Water pump code 2014; w/Pump housing marked R83561
1	Ball Brg.	FP-JD10362		Gear driven rear bearing; Water pump code 2014; w/Pump housing marked R83561
1	Ball Brg.	FP-JD10113		Rear bearing; 6466A Engs.; w/Pump housing marked R71224
1	Water Pump Housing Gasket	FP-R69944		6466A Engs.; w/Pump housing marked R69945
1	Water Pump Housing Gasket	FP-R61437		6466A Engs.; w/Water pump AR98552; To Ser. No. 211,131
1	Water Pump Housing Gasket	FP-R61437		6466A Engs.; w/Water pump RE10969; From Ser. No. 211,132
1	Water Pump Housing Gasket	FP-R50410		6466T Engs.; w/Pump housing marked R50408

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Combine **6466A, 6466T Engs.** *Cotton Picker* **6466A Eng.** *Corn Picker* **6466A, 6466T Engs.** *Harvester* **6466A, 6466T Engs.** *Grader* **6466A, 6466T Engs.** *Loader* **6466A, 6466T Engs.** *Scraper* **6466A, 6466T Engs.** *Wheel Tractor* **6466A, 6466T Engs.** *Crawler Tractor* **6466A, 6466T Engs.** *Forestry Tractor* **6466A, 6466T Engs.** *Excavator* **6466A, 6466T Engs.** *Skidder* **6466A, 6466T Engs.** *Compactor* **6466A, 6466T Engs.** *Dozer* **6466A, 6466T Engs.** *Feller Buncher* **6466A, 6466T Engs.** *Forage Harvester* **6466A Eng.**
7.6L 466 OHV Turbo-Diesel L6 (Standard), 4.5625" Bore

114 (cont.)

COOLING SYSTEM (cont.)

QTY	WATER PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR101549**		Water Pump; w/Pump housing marked R50408
1	Water Pump Mounting Gasket	**FP-R71315**		w/Pump housing marked R71224, R83561; From Ser. No. 67,685
1	Water Pump Inlet Gasket	**FP-R71361**		w/Pump housing marked R71224, R83561; From Ser. No. 67,685
1	Water Pump Spacer Gasket	**FP-R42406**		w/Pump housing marked R50408, R58713
1	Oil Seal	**FP-RE39134**		Water pump code 2014; w/Pump housing marked R71224, R83561
1	O-Ring	**FP-R72328**		Water tube to thermostat housing seal; Turbo line codes 6501, 6502
1	O-Ring	**FP-R71596**		Pump cover; w/Pump housing marked R71224, R83561
1	O-Ring	**FP-R47153**		Water manifold; Water manifold codes 2107, 2108
2	O-Ring	**FP-R47153**		Water manifold; 6466T Engs.; Water manifold code 3905
2	O-Ring	**FP-R47153**		Water pump tube; Pump code 2014
1	Oil Seal	**FP-RE20768**		Fan hub shaft seal; For gear driven water pump
1	Shaft & Bearing Assembly	**FP-JD9257**		w/Pump housing marked R58713; To Ser. No. 211,131
1	Shaft & Bearing Assembly	**FP-JD10238**		6466A Engs.; w/Pump housing marked R61439; From Ser. No. 211,132
1	Water Pump Hub	**FP-JD10058**		w/Fan Hub bearing codes 2300, 2306, 2307, 2309, 2310, 2314
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked R71224, R83561

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	**FP-AR48675**		Thermostat codes 2101, 2103, 2107, 2108, 2204; 180 Deg.
2	Thermostat	**FP-AR72852**		Thermostat codes 2102, 2103; Thermostat housing code 3905; 192 Deg.
1	Thermostat Cover Gasket	**FP-R46479**		Thermostat cover codes 2101, 2102, 2103, 2104, 2107, 2108; Two hole
1	Therm. Hsg. - Water Mfld. Gsk	**FP-R86062**		Thermostat housing to cyl. head

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
1	Water Line Gasket	**FP-R97346**		w/Int. manifold R59747, R92644; From Ser. No. 67,685
2	Water Manifold Mounting Gskt.	**FP-R88397**		
1	Cyl. Block Water Hole Cvr Gsk	**FP-R43595**		Cyl. head water opening cover gskt.

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	**FP-R71918**		
1	Oil Pan Gasket	**FP-R49377**		6466A Engs.; w/Alum. oil pan w/deep sump; Oil pan codes 1906, 1908, 1922
1	Oil Pan Gasket Set	**FP-PG401PS**		From Ser. No. 67,685; w/Cast iron oil pan
1	Oil Pan Gasket Set	**FP-PG400PS**		6466A Engs.; From Ser. No. 67,685; w/Cast iron oil pan
2	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"
1	O-Ring	**FP-U13639**		Cooler bypass tube inlet seal; To Ser. No. 169,336; 1.475" X .118"

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	**FP-PG466TAS**		6466A Engs.
1	Complete Overhaul Gasket Set	**FP-AR98845**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-AR98845WS**		Incl. Crankshaft seals; Rear main brg. seal incl.; Wear sleeve; Timing cover seal & wear sleeve not incl.
1	Kit Gasket Set	**260-1400**		Compl.; Rear main brg. seal incl. & wear sleeve incl.; Timing cover seal & wear sleeve incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-4R46903**	*STD*	
4	Cam Brg.	**FP-R46903**	*STD*	

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket Set	**FP-466A**		6466A Engs.; From Ser. No. 67,685
2	Aftercooler Gasket	**FP-R97347**		6466A Engs.; From Ser. No. 67,685
1	Oil Cooler	**FP-AT25038**		w/13 plate
1	Oil Cooler Installation Kit	**FP-58952**		
2	O-Ring	**FP-R52811**		6466A Engs.; Intercooler inlet & outlet tube seals; Int. manifold codes 1705, 1707, 1719, 1726
4	O-Ring	**FP-R47153**		Cooler tube
1	Oil Cooler Bypass Gasket	**FP-R65055**		
1	Oil Cooler Cover Gasket	**FP-R50419**		

(continued on next page)

114 (cont.) *Combine* **6466A, 6466T Engs.** *Cotton Picker* **6466A Eng.** *Corn Picker* **6466A, 6466T Engs.** *Harvester* **6466A, 6466T Engs.** *Grader* **6466A, 6466T Engs.** *Loader* **6466A, 6466T Engs.** *Scraper* **6466A, 6466T Engs.** *Wheel Tractor* **6466A, 6466T Engs.** *Crawler Tractor* **6466A, 6466T Engs.** *Forestry Tractor* **6466A, 6466T Engs.** *Excavator* **6466A, 6466T Engs.** *Skidder* **6466A, 6466T Engs.** *Compactor* **6466A, 6466T Engs.** *Dozer* **6466A, 6466T Engs.** *Feller Buncher* **6466A, 6466T Engs.** *Forage Harvester* **6466A Eng.**
7.6L 466 OHV Turbo-Diesel L6 (Standard), 4.5625" Bore

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE53422**		Gears incl.
1	Crankshaft	**FP-AR96189**		Gears not incl.
1	Oil Seal Kit	**FP-SK49025**		Incl. front & rear seals
QTY	**SEALS - FRONT CRANK**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Oil Seal Kit	**FP-AR49025**		
QTY	**SEALS - REAR CRANK**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Oil Seal	**FP-RE22764**		PTFE
QTY	**MAIN BEARINGS**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Main Set	**FP-MBK400L6**	*STD*	
1	Main Set	**FP-MBK400L610**	*10*	
1	Main Set	**FP-MBK400L620**	*20*	
1	Main Set	**FP-MBK400L630**	*30*	
6	Plain Main Brg.	**FP-AR74814**	*STD*	
6	Plain Main Brg.	**FP-AR74816**	*10*	
6	Plain Main Brg.	**FP-AR74817**	*20*	
6	Plain Main Brg.	**FP-AR74818**	*30*	
1	Flanged Main Brg.	**FP-AR77748**	*STD*	
1	Flanged Main Brg.	**FP-AR77750**	*10*	
1	Flanged Main Brg.	**FP-AR77751**	*20*	
1	Flanged Main Brg.	**FP-AR77752**	*30*	
1	Thrust Washer Set	**FP-AR77747**	*STD*	
QTY	**OIL PUMP**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Oil Pump Spring	**FP-R26151**		
1	O-Ring	**FP-R50405**		Intake coupling; 6466A Engs.; Large end; Int. manifold codes 1705, 1707, 1719, 1726, 1730
2	O-Ring	**FP-R71732**		Pump; Pump codes 1904, 1906, 1908, 1922; w/Pump marked R62946, R124328; From Ser. No. 169,337
4	O-Ring	**FP-R71732**		Pump; Pump codes 1904, 1908; w/Pump marked R57556; To Ser. No. 169,336
2	O-Ring	**FP-R71732**		Pump; 6466A Engs.; Pump codes 1904, 1906, 1907, 1908, 1922; w/Pump marked R62946, R124328
1	O-Ring	**FP-R71732**		Pump to block; Block codes 4602, 4603; From Ser. No. 169,337
1	O-Ring	**FP-R495R**		Ventilator tube; 6466A Engs.; Smooth
1	Oil Pump Cover Gasket	**FP-R52049**		6466A Engs.; Oil pump codes 1904, 1907; From Ser. No. 169,337
1	Oil Pump Cover Gasket	**FP-R52049**		6466A Engs.; Oil pump codes 1904, 1908; To Ser. No. 169,336
1	Oil Pump Intake Gasket	**FP-R100569**		6466A Engs.; w/Oil pump housing marked R124328
1	Rect. or Square Seal	**FP-R43660**		Filter to housing; 6466A Engs.; Filter & body codes 1601, 1606, 1608; w/housing marked R54561, R59483, R62110, R67409, R71484, R84946
1	Oil Filter to Block Gasket	**FP-R43774**		6466A Engs.; w/Filter housing marked R67409, R71484, R84946

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R87858**		
6	Liner w/Sealing Rings	**FP-R87858WS**		
6	Cylinder Kit Complete	**FP-AR72079**	*STD*	6466A Engs.; w/Block marked R65693, R71688, R72132, R78505, R87555, R87556; w/Con. Rod marked R57303, R67320; To Ser. No. 67,684
6	Cylinder Kit Complete	**FP-AR100646**	*STD*	6466A Engs.; w/Block marked R65693, R71688, R72132, R78505, R87555, R87556; w/Con. Rod marked R71074; Piston code 4804; From Ser. No. 67,685
6	Cylinder Kit Complete	**FP-AR100960**	*STD*	6466A Engs.; w/Block marked R65693, R71688, R72132, R78505, R87555, R87556; w/Con. Rod marked R71074; Piston code 4806; From Ser. No. 233,593 to Ser. No. 317,858
6	Cylinder Kit Complete	**FP-AR72079**	*STD*	6466T Engs.; w/Block marked R65693, R71688, R72132, R78505, R87555, R87556; w/Con. Rod marked R57303, R67320; To Ser. No. 253,372
6	Cylinder Kit Complete	**FP-AR100646**	*STD*	6466T Engs.; w/Block marked R65693, R71688, R72132, R78505, R87555, R87556; w/Con. Rod marked R71074; From Ser. No. 253,373
6	Cyl. Liner Sealing Ring Kit	**FP-AR98850**		

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Combine **6466A, 6466T Engs.** *Cotton Picker* **6466A Eng.** *Corn Picker* **6466A, 6466T Engs.** *Harvester* **6466A, 6466T Engs.** *Grader* **6466A, 6466T Engs.** *Loader* **6466A, 6466T Engs.** *Scraper* **6466A, 6466T Engs.** *Wheel Tractor* **6466A, 6466T Engs.** *Crawler Tractor* **6466A, 6466T Engs.** *Forestry Tractor* **6466A, 6466T Engs.** *Excavator* **6466A, 6466T Engs.** *Skidder* **6466A, 6466T Engs.** *Compactor* **6466A, 6466T Engs.** *Dozer* **6466A, 6466T Engs.** *Feller Buncher* **6466A, 6466T Engs.** *Forage Harvester* **6466A Eng.**

114 (cont.)

7.6L 466 OHV Turbo-Diesel L6 (Standard), 4.5625" Bore

CYLINDER COMPONENTS (cont.)

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-AR100673**	*STD*	6466A Engs.; Piston code 4806; From Ser. No. 233,593 to Ser. No. 317,858
6	Piston Body w/o Pin	**FP-AR100616**	*STD*	6466A Engs.; Piston Code 4807; From Ser. No. 317,859
6	Piston Body w/o Pin	**FP-AR93629**	*STD*	6466A Engs.; To Ser. No. 253,372
6	Piston Body w/o Pin	**FP-AR100616**	*STD*	6466T Engs.; From Ser. No. 67,685
6	Piston Body w/o Pin	**FP-AR93629**	*STD*	6466T Engs.; To Ser. No. 67,684
6	Piston Kit w/Pin & Retainers	**FP-AR100673WP**	*STD*	6466A Engs.; Piston code 4806; From Ser. No. 233,593 to Ser. No. 317,858
6	Piston Kit w/Pin & Retainers	**FP-AR100616WP**	*STD*	6466A Engs.; Piston Code 4807; From Ser. No. 317,859
6	Piston Kit w/Pin & Retainers	**FP-AR93629WP**	*STD*	6466A Engs.; To Ser. No. 253,372
6	Piston Kit w/Pin & Retainers	**FP-AR100616WP**	*STD*	6466T Engs.; From Ser. No. 67,685
6	Piston Kit w/Pin & Retainers	**FP-AR93629WP**	*STD*	6466T Engs.; To Ser. No. 67,684
6	Pin	**FP-R57771**		
12	Piston Pin Retainer	**FP-E1343FN**		
6	Pin Bushing	**FP-R60724**		6466A Engs.; w/Con. Rod marked R67320; To Ser. No. 67,684; w/1.875" ID, 2.0622" OD, 1.657" O.A.L.
6	Pin Bushing	**FP-R74008**		6466A Engs.; w/Con. Rod marked R71074; From Ser. No. 67,685; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.
6	Pin Bushing	**FP-R60724**		6466T Engs.; w/Con. Rod marked R57303, R67320; To Ser. No. 253,372; w/1.875" ID, 2.0622" OD, 1.657" O.A.L.
6	Pin Bushing	**FP-R74008**		6466T Engs.; w/Con. Rod marked R71074; From Ser. No. 253,373; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R66452**		w/Con. Rod marked R57303, R67320, R71074; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	**FP-AR73277**	*STD*	
6	Rod Pair	**FP-AR73279**	*10*	
6	Rod Pair	**FP-AR73280**	*20*	
6	Rod Pair	**FP-AR73281**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-RE48380**	*STD*	2-5/32, 1-3/16 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-466AHPIFK**		6466A Engs.; w/Block marked R65693, R71688, R72132, R78505, R87555, R87556; w/Con. Rod marked R71074; Piston code 4806; From Ser. No. 233,593 to Ser. No. 317,858; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-466TAEIFK**		6466A Engs.; w/Con. Rod marked R67320; To Ser. No. 67,684; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-466TALIFK**		6466A Engs.; w/Con. Rod marked R71074; From Ser. No. 67,685; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-466TAEIFK**		6466T Engs.; w/Con. Rod marked R57303, R67320; To Ser. No. 253,372; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-466TALIFK**		6466T Engs.; w/Con. Rod marked R71074; From Ser. No. 253,373; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-466AHPOHK**		6466A Engs.; w/Block marked R65693, R71688, R72132, R78505, R87555, R87556; w/Con. Rod marked R71074; Piston code 4806; From Ser. No. 233,593 to Ser. No. 317,858; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-466TAEOHK**		6466A Engs.; w/Con. Rod marked R67320; To Ser. No. 67,684; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-466TALOHK**		6466A Engs.; w/Con. Rod marked R71074; From Ser. No. 67,685; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-466TAEOHK**		6466T Engs.; w/Con. Rod marked R57303, R67320; To Ser. No. 253,372; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-466TALOHK**		6466T Engs.; w/Con. Rod marked R71074; From Ser. No. 253,373; Incl. Torque-To-Yield con. rod bolts

115 *Loader* 6076D Eng.
7.6L 465.9 (7638cc) OHV Diesel L6 (Litre Engine), 115mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	FP-RE47336		From Ser. No. 500,000
1	Head Set	FP-RG22248		From Ser. No. 500,000

QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
11	Head Bolt	FP-R88043		To Ser. No. 499,999; 5.250" length
8	Head Bolt	FP-R88044		To Ser. No. 499,999; 6.250" length
7	Head Bolt	FP-R88045		To Ser. No. 499,999; 7.250" length

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R84618	*STD*	1 groove; Chrome plated stem; 2.0080" Head Dia., .3730" Stem Dia., 6.0600" O.A.L.
6	Intake	FP-R93308	*3*	1 groove; Chrome plated stem; 2.0080" Head Dia., .3760" Stem Dia., 6.0600" O.A.L.
6	Exhaust	FP-R84619	*STD*	1 groove; Chrome plated stem; 1.8500" Head Dia., .3720" Stem Dia., 6.1780" O.A.L.
6	Exhaust	FP-R93311	*3*	1 groove; Chrome plated stem; 1.8500" Head Dia., .3750" Stem Dia., 6.1780" O.A.L.
12	Valve Stem Cap	FP-T20129		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R84976	*STD*	
6	Exh.	FP-R93349	*10*	
6	Int.	FP-R84977	*STD*	
6	Int.	FP-R93350	*10*	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R91822		

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE11410		Exh. & Int.
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover codes 1101, 1103, 2904, 2908; Oil filler neck codes 1208, 6209

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3004, 3005, 3011, 3016

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Delco-Remy components; Code 3132; 24 Volt, 40 amp alternator
1	Ball Brg.	FP-JD9449		Front; Delco-Remy No. 1101345; Code 3114; 12 Volt, 78 amp alternator
1	Ball Brg.	FP-JD9449		Front; Nippondenso components; Code 3143; 12 Volt, 90 amp alternator; Poly-Vee fan drive
1	Ball Brg.	FP-JD9449		Front; Nippondenso components; 12 Volt, 90 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola No. 70D42179T02; Code 3106; 24 Volt, 45 amp alternator

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R79915		Tach sensor seal to cover; Codes 4402, 4420

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Intake Manifold Gasket	FP-R130573		From Ser. No. 500,000; w/Int. manifolds R89790, R115393, R130718, R131473, R131651, R131657, R132290, R134429
3	Intake Manifold Gasket	FP-R130573		To Ser. No. 499,999; w/Int. manifolds R89790, R96518

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	FP-R26058		To Ser. No. 499,999

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	FP-R82007		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R53901		Control valve seal to housing; Pump housing codes 1601, 1637, 1688, 1689; Filter & line codes 3511, 3512
1	Washer	FP-R53899		Fuel filter codes 3511, 3512
6	Washer	FP-R84472		Injector nozzle; Nozzle codes 1604, 1610, 1616, 1650; .290" X .715" X .079"
6	Fuel Injector Nut	FP-R79604		Inj. pump; Line codes 1601, 1604, 1623, 1637, 1644, 1652, 1667, 1680, 1683, 1686, 1688; To Ser. No. 499,999

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FUEL SYSTEM & PARTS (cont.)

QTY	FUEL INJECTION (cont.)	PART NO.	SIZE	DESCRIPTION
13	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1604, 1610, 1616, 1637, 1650
13	Washer Type Seal	FP-R51936		L.H. & R.H.; Aux. drive line seals

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
6	O-Ring	FP-R77551		Leak-off fitting to nozzle; Nozzle codes 1601, 1604, 1610, 1615, 1616, 1623, 1637, 1644, 1650; Viton®

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R86743		Outer coupling; Manifold code 1726

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R71225		Water pump code 2032; w/Pump housing marked R83561
2	Ball Brg.	FP-JD10329		Fan hub shaft bearing
1	Ball Brg.	FP-JD10363		Gear driven front bearing; Water pump code 2032; w/Pump housing marked R83561
1	Ball Brg.	FP-JD10362		Gear driven rear bearing; Water pump code 2032; w/Pump housing marked R83561
1	Water Pump Inlet Gasket	FP-R71361		w/Pump housing marked R83561; To Ser. No. 499,999
1	Oil Seal	FP-RE39134		Water pump code 2032; w/Pump housing marked R83561; To Ser. No. 499,999
3	O-Ring	FP-R72328		Water tube to thermostat housing seal; Water pump code 2030; Thermostat housing code 3905
1	O-Ring	FP-R101042		Housing to cover; Water pump code 2030; w/Gear driven pump
1	O-Ring	FP-R71596		Pump cover; w/Pump housing marked R83561; Water pump code 2032
2	O-Ring	FP-R47153		Water pump tube
1	Oil Seal	FP-RE20768		Fan hub shaft seal; For gear driven water pump; From Ser. No. 500,000
1	Water Pump Hub	FP-JD10058		w/Fan Hub bearing codes 2317, 2318, 2324, 2328, 2329, 2330, 2331, 2332, 2334, 2336, 2338, 2339
1	Water Pump Filter	FP-R98527		Water pump code 2032; w/Pump housing marked R83561; From Ser. No. 101,935

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2204; 180 Deg.
1	Thermostat Cover Gasket	FP-R46479		Thermostat cover codes 2102, 2114, 2204, 3904, 3912; Two hole
2	O-Ring	FP-R47153		Thermostat; Water manifold codes 3904, 3912

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	FP-R88397		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	FP-R125670		Aux. drive L.H. rear cover gskt.
1	Oil Pan Gasket	FP-R71918		
1	Oil Pan Gasket	FP-R49377		w/Alum. pan; Oil pan codes 1906, 1916, 1922, 1953, 1954
1	Oil Pan Gasket Set	FP-PG400PS		To Ser. No. 499,999; w/Cast iron oil pan
2	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG6076LS		From Ser. No. 500,000
1	In-Frame Gasket Set	FP-PG6076ES		To Ser. No. 499,999
1	Complete Overhaul Gasket Set	FP-RE64206		From Ser. No. 500,000; Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE64206WS		From Ser. No. 500,000; Incl. Crankshaft seals
1	Complete Overhaul Gasket Set	FP-RE35647		To Ser. No. 499,999; Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE35647WS		To Ser. No. 499,999; Incl. Crankshaft seals

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R87561		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
4	O-Ring	FP-R47153		Cooler tube

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-RE53422		Gears incl.; Short snout 3.000"
1	Crankshaft	FP-AR96189		Gears not incl.
1	Oil Seal Kit	FP-SK49025		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-AR49025		

(continued on next page)

115 *Loader* 6076D Eng. (cont.)
7.6L 465.9 (7638cc) OHV Diesel L6 (Litre Engine), 115mm Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE22764		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
5	Plain Main Brg.	FP-AR74814	STD	
5	Plain Main Brg.	FP-AR74816	10	
5	Plain Main Brg.	FP-AR74817	20	
5	Plain Main Brg.	FP-AR74818	30	
1	Flanged Main Brg.	FP-AR77748	STD	
1	Flanged Main Brg.	FP-AR77750	10	
1	Flanged Main Brg.	FP-AR77751	20	
1	Flanged Main Brg.	FP-AR77752	30	
1	Thrust Washer Set	FP-AR77747	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
3	O-Ring	FP-U17409		Oil cooler relief valve plug seal; Filter & housing code 5919
4	O-Ring	FP-R71732		Pump by-pass tubes; Pump codes 5001, 5003, 5004; w/Pump marked R62946, R124328
1	Oil Pump Intake Gasket	FP-R100569		w/Oil pump housing marked R124328, R124746; Oil pump pickup codes 1904, 1906, 1908, 1916, 1922, 1953
1	Rect. or Square Seal	FP-R43660		Filter to housing; Filter & body code 5919; w/housing marked R120412
1	Oil Pump Intake Elbow Gasket	FP-R71312		w/Rear deep sump; Oil pump code 5003; Oil pan code 1906
1	Oil Filter to Block Gasket	FP-R43774		Filter housing code 5931

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R87858		
6	Liner w/Sealing Rings	FP-R87858WS		
6	Cylinder Kit Complete	FP-RE60294	STD	w/Con. Rod marked R71074; From Ser. No. 500,000
6	Cylinder Kit Complete	FP-RE48739	STD	w/Con. Rod marked R71074; To Ser. No. 499,999
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-RE57512	STD	From Ser. No. 500,000
6	Piston Body w/o Pin	FP-RE50868	STD	To Ser. No. 499,999
6	Piston Kit w/Pin & Retainers	FP-RE57512WP	STD	From Ser. No. 500,000
6	Piston Kit w/Pin & Retainers	FP-RE50868WP	STD	To Ser. No. 499,999
6	Pin	FP-R57771		
12	Piston Pin Retainer	FP-E1343FN		
6	Pin Bushing	FP-R74008		w/Con. Rod marked R71074; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R66452		w/Con. Rod marked R71074; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	FP-AR73277	STD	
6	Rod Pair	FP-AR73279	10	
6	Rod Pair	FP-AR73280	20	
6	Rod Pair	FP-AR73281	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE57517	STD	From Ser. No. 500,000

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-6076LIFK		w/Con. Rod marked R71074; From Ser. No. 500,000; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	FP-6076EIFK		w/Con. Rod marked R71074; To Ser. No. 499,999; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-6076LOHK		w/Con. Rod marked R71074; From Ser. No. 500,000; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-6076EOHK		w/Con. Rod marked R71074; To Ser. No. 499,999; Incl. Torque-To-Yield con. rod bolts

116 *Grader* 6076H, 6076T Eng. *Loader* 6076H, 6076T Engs. *Wheel Tractor* 6076A, 6076H, 6076T Engs. *Excavator* 6076H, 6076T Engs. *Skidder* 6076H, 6076T Engs.
7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 (Litre Engine), 115mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	FP-RE47336		From Ser. No. 500,000

(continued on next page)

Grader **6076H, 6076T Eng.** *Loader* **6076H, 6076T Engs.** *Wheel Tractor* **6076A, 6076H, 6076T Engs.** *Excavator* **6076H, 6076T Engs.** *Skidder* **6076H, 6076T Engs.** **116 (cont.)**

7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 (Litre Engine), 115mm Bore

CYL. HEAD & PARTS (cont.)

QTY	GASKETS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Head Set	FP-RG22248		From Ser. No. 500,000

QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
11	Head Bolt	FP-R88043		To Ser. No. 499,999; 5.250" length
8	Head Bolt	FP-R88044		To Ser. No. 499,999; 6.250" length
7	Head Bolt	FP-R88045		To Ser. No. 499,999; 7.250" length

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R84618	STD	1 groove; Chrome plated stem; 2.0080" Head Dia., .3730" Stem Dia., 6.0600" O.A.L.
6	Intake	FP-R93308	3	1 groove; Chrome plated stem; 2.0080" Head Dia., .3760" Stem Dia., 6.0600" O.A.L.
6	Exhaust	FP-R84619	STD	1 groove; Chrome plated stem; 1.8500" Head Dia., .3720" Stem Dia., 6.1780" O.A.L.
6	Exhaust	FP-R93311	3	1 groove; Chrome plated stem; 1.8500" Head Dia., .3750" Stem Dia., 6.1780" O.A.L.
12	Valve Stem Cap	FP-T20129		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R84976	STD	
6	Exh.	FP-R93349	10	
6	Int.	FP-R84977	STD	
6	Int.	FP-R93350	10	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R91822		

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE11410		Exh. & Int.
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover codes 1101, 1103, 2904, 2908; Oil filler neck codes 1208, 6209

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3004, 3005, 3011, 3016

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Delco-Remy components; Code 3132; 24 Volt, 40 amp alternator
1	Ball Brg.	FP-JD9449		Front; Nippondenso components; Code 3137; 12 Volt, 70 amp alternator
1	Ball Brg.	FP-JD9449		Front; Nippondenso components; Code 3143; 12 Volt, 90 amp Poly-Vee alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Delco-Remy No. 1101345; Code 3114; 12 Volt, 78 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola No. 70D42179T02; 24 Volt, 45 amp alternator

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R79915		Tach sensor seal to cover; Codes 4402, 4420

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	FP-R83021		One Exh. hole
2	Exhaust Manifold Gasket	FP-R83020		Two Exh. holes
3	Intake Manifold Gasket	FP-R130573		w/Int. manifolds R108608, R127872, R132293
3	Intake Manifold Gasket	FP-R130573		w/Int. manifolds R89791, R91466, R112707
3	Intake Manifold Gasket	FP-R130573		From Ser. No. 500,000; w/Int. manifolds R89790, R115393, R130718, R131473, R131651, R131657, R132290, R134429
3	Intake Manifold Gasket	FP-R130573		To Ser. No. 499,999; w/Int. manifold R89790

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	FP-R26058		
1	Timing Gear Cover Gasket	FP-R50390		Access cover
1	Timing Gear Cover Gasket	FP-R99464		From Ser. No. 500,000
1	Timing Gear Cover Gasket	FP-R71314		To Ser. No. 499,999
1	Timing Gear Cover Gasket	FP-R93346		To Ser. No. 499,999; Use w/cover R109662

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	FP-R82007		

(continued on next page)

116 (cont.) *Grader* 6076H, 6076T Eng. *Loader* 6076H, 6076T Engs. *Wheel Tractor* 6076A, 6076H, 6076T Engs. *Excavator* 6076H, 6076T Engs. *Skidder* 6076H, 6076T Engs.

7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 (Litre Engine), 115mm Bore

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R53899		Control valve to pump housing seal; Pump housing codes 1610, 1616, 1626, 1640, 1641, 1650, 1654; Fuel filter codes 3502, 3503, 3511, 3513
1	Washer	FP-R53901		6076A Engs.; Control valve seal to housing; Pump housing codes 1601, 1637, 1650, 1688, 1689; Filter & line codes 3512, 3521
1	Washer	FP-R53901		6076T Engs.; Control valve seal to housing; Pump housing codes 1652, 1652, 1680; Filter & line codes 3512, 3521
6	Washer	FP-R84472		Injector nozzle; 6076A Engs.; Nozzle codes 1601, 1617, 1637, 1686, 1688, 1689; .290" X .715" X .079"
6	Washer	FP-R84472		Injector nozzle; 6076T Engs.; Nozzle codes 1652, 1683; .290" X .715" X .079"
6	Fuel Injector Nut	FP-R79604		6076A Engs.; Inj. pump; Line codes 1601, 1604, 1623, 1637, 1644, 1652, 1667, 1680, 1683, 1686, 1688
13	Washer Type Seal	FP-R51936		Electric fuel shut-off
13	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1601, 1604, 1611, 1612, 1613, 1615, 1616, 1617, 1622, 1623, 1625, 1626, 1637, 1640, 1641, 1644, 1650, 1652, 1654, 1655, 1656, 1657, 1667, 1676, 1678, 1680, 1683, 1686, 1688, 1689
13	Washer Type Seal	FP-R51936		L.H. & R.H.; Aux. drive line seals

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
6	O-Ring	FP-R77551		Leak-off fitting to nozzle; Nozzle codes 1601, 1610, 1611, 1612, 1613, 1615, 1616, 1617, 1626, 1637, 1640, 1641, 1644, 1650, 1654, 1667, 1676, 1678, 1684, 1686, 1688, 1689; Viton®
6	O-Ring	FP-R51603		Fuel nozzle; 6076A Engs.; Injector nozzle codes 1611, 1644, 1655; w/Bosch injector

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		w/Turbo oil line codes 6501, 6502, 6504, 6505, 6506, 6510
1	Turbocharger Mounting Gasket	FP-R89879		
1	O-Ring	FP-R57517		6076A Engs.; Manifold to turbo coupling seal; Int. manifold code 1707
1	O-Ring	FP-R86743		Inner coupling; Manifold code 1707
1	O-Ring	FP-R86743		Outer coupling; Manifold codes 1706, 1709, 1710, 1726, 1731, 1737, 1738
1	O-Ring	FP-R86743		Outer coupling; Manifold codes 1726, 1730; Rear mount turbo code 4307
1	Sealing Ring	FP-R100911		6076A Engs.; Cooler inlet/outlet gskt.
1	Turbo Exhaust Int. Cover Gskt	FP-R92097		6076T Engs.; Rear mounted turbocharger

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Shaft	FP-R70965		Water pump codes 2014, 2032; w/Pump marked R83561; Gear driven pump
1	Water Pump Impeller	FP-R71225		Pump codes 2014, 2032; w/Pump housing marked R83561
1	Water Pump Repair/Rebuild Kit	FP-RE69847		w/Pump housing marked R83561; Gear driven pump
2	Ball Brg.	FP-JD10329		Fan hub shaft bearing
1	Ball Brg.	FP-JD10363		Gear driven front bearing; Water pump codes 2014, 2032; w/Pump housing marked R83561
1	Ball Brg.	FP-JD10362		Gear driven rear bearing; Water pump codes 2014, 2032; w/Pump housing marked R83561
1	Water Pump Gasket	FP-R96616		w/Pump cover R96606, R133310; From Ser. No. 500,000
1	Water Pump Housing Gasket	FP-R100367		w/Pump housing marked RE39121, RE68230; w/Raised letter "X"; From Ser. No. 500,000
1	Water Pump Mounting Gasket	FP-R71315		w/Pump housing marked R83561; To Ser. No. 499,999
1	Water Pump Mounting Gasket	FP-R71315		w/Pump housing marked R85677
1	Water Pump Inlet Gasket	FP-R71361		w/Pump housing marked R83561; To Ser. No. 499,999
1	Oil Seal	FP-RE20768		Fan hub shaft seal; For gear driven water pump
1	Oil Seal	FP-RE39134		Water pump codes 2014, 2032; w/Pump housing marked R83561
3	O-Ring	FP-R72328		Water tube to thermostat housing seal; Water pump code 2030; Thermostat housing code 3905
1	O-Ring	FP-R101042		Housing to cover; Water pump codes 2030, 2039; w/Gear driven pump
1	O-Ring	FP-R71596		Pump cover; w/Pump housing marked R83561; Water pump code 2014
2	O-Ring	FP-R47153		Water pump tube
1	Water Pump Hub	FP-JD10058		w/Fan Hub bearing codes 2317, 2318, 2320, 2324, 2327, 2328, 2329, 2330, 2331, 2332, 2334, 2335, 2336, 2338, 2339, 2340

(continued on next page)

Grader **6076H, 6076T Eng.** *Loader* **6076H, 6076T Engs.** *Wheel Tractor* **6076A, 6076H, 6076T Engs.** *Excavator* **6076H, 6076T Engs.** *Skidder* **6076H, 6076T Engs.** **116 (cont.)**
7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 (Litre Engine), 115mm Bore

COOLING SYSTEM (cont.)

QTY	WATER PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Water Pump Filter	**FP-R98527**		Water pump codes 2014, 2032; w/Pump housing marked R83561; From Ser. No. 101,935

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	**FP-AR72852**		Thermostat code 2202; 192 Deg.
2	Thermostat	**FP-AR48675**		Thermostat code 2204; 180 Deg.
1	Thermostat Cover Gasket	**FP-R46479**		Thermostat cover codes 2102, 2114, 2204, 3904, 3912; Two hole
1	Therm. Hsg. - Water Mfld. Gsk	**FP-R86062**		Thermostat housing to cyl. head
2	O-Ring	**FP-R47153**		Thermostat; Water manifold codes 3904, 3912

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
1	Water Line Gasket	**FP-R97346**		To Ser. No. 100,770
2	Water Manifold Mounting Gskt.	**FP-R88397**		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	**FP-R125670**		Aux. drive L.H. rear cover gskt.
1	Front Cover Gasket	**FP-R104623**		From Ser. No. 500,000
1	Front Cover Gasket	**FP-R122143**		Timing gear cover gskt.; To Ser. No. 499,999
1	Oil Pan Gasket	**FP-R71918**		
1	Oil Pan Gasket	**FP-R49377**		w/Alum. pan; Oil pan code 1909
1	Oil Pan Gasket	**FP-R49377**		6076A Engs.; w/Alum. pan; Oil pan codes 1906, 1908, 1916, 1922, 1953, 1954
1	Oil Pan Gasket Set	**FP-PG400PS**		6076A Engs.; To Ser. No. 499,999; w/Cast iron oil pan
1	Oil Pan Gasket Set	**FP-PG401PS**		6076T Engs.; From Ser. No. 180,071; w/Cast iron oil pan & rear sump
2	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	**FP-PG6076LS**		From Ser. No. 500,000
1	In-Frame Gasket Set	**FP-PG6076ES**		To Ser. No. 499,999
1	Complete Overhaul Gasket Set	**FP-RE64206**		From Ser. No. 500,000; Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE64206WS**		From Ser. No. 500,000; Incl. Crankshaft seals
1	Complete Overhaul Gasket Set	**FP-RE35647**		To Ser. No. 499,999; Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE35647WS**		To Ser. No. 499,999; Incl. Crankshaft seals

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R87561**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket Set	**FP-6076A**		6076A Engs.; To Ser. No. 100,770; w/housing No. R50398
1	Aftercooler Gasket Set	**FP-6076ADP**		6076A Engs.; Use w/housing Nos. R90995, R93918, R110232
2	Aftercooler Gasket	**FP-R97347**		6076A Engs.
2	Aftercooler Gasket	**FP-R88993**		6076A Engs.; From Ser. No. 100,177
1	Oil Cooler	**FP-AT25038**		
1	O-Ring	**FP-R52811**		6076A Engs.; Intercooler inlet & outlet tube seals; Int. manifold code 1726; To Ser. No. 100,770
4	O-Ring	**FP-R47153**		Cooler tube
2	O-Ring	**FP-R47153**		Oil filter tube; Oil filter code 5931
1	Oil Cooler Bypass Gasket	**FP-R65055**		
1	Oil Cooler Cover Gasket	**FP-R128558**		From Ser. No. 500,000
1	Oil Cooler Cover Gasket	**FP-R50419**		To Ser. No. 499,999
1	Oil Cooler Housing Cover Gskt	**FP-R128557**		From Ser. No. 500,000

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE53422**		Gears incl.; Short snout 3.000"
1	Crankshaft	**FP-AR96189**		Gears not incl.
1	Oil Seal Kit	**FP-SK49025**		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE22764**		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK400L4**	*STD*	w/5 main brgs.
1	Main Set	**FP-MBK400L410**	*10*	w/5 main brgs.
1	Main Set	**FP-MBK400L420**	*20*	w/5 main brgs.
1	Main Set	**FP-MBK400L6**	*STD*	w/7 main brgs.
1	Main Set	**FP-MBK400L610**	*10*	w/7 main brgs.

(continued on next page)

116 (cont.) *Grader* 6076H, 6076T Eng. *Loader* 6076H, 6076T Engs. *Wheel Tractor* 6076A, 6076H, 6076T Engs. *Excavator* 6076H, 6076T Engs. *Skidder* 6076H, 6076T Engs.

7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 (Litre Engine), 115mm Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	MAIN BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK400L620	20	w/7 main brgs.
1	Main Set	FP-MBK400L630	30	w/7 main brgs.
5	Plain Main Brg.	FP-AR74814	STD	
5	Plain Main Brg.	FP-AR74816	10	
5	Plain Main Brg.	FP-AR74817	20	
5	Plain Main Brg.	FP-AR74818	30	
1	Flanged Main Brg.	FP-AR77748	STD	
1	Flanged Main Brg.	FP-AR77750	10	
1	Flanged Main Brg.	FP-AR77751	20	
1	Flanged Main Brg.	FP-AR77752	30	
1	Thrust Washer Set	FP-AR77747	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
3	O-Ring	FP-U17409		Oil cooler relief valve plug seal; Filter & housing codes 5919, 5931
4	O-Ring	FP-R71732		Pump by-pass tubes; Pump codes 5001, 5003, 5004; w/Pump marked R62946, R124328
1	O-Ring	FP-R50405		Intake coupling; Large end; Int. manifold code 1735
1	Rect. or Square Seal	FP-R43660		Filter to housing; Filter & body code 5919; w/housing marked R120412
1	Oil Pump Intake Elbow Gasket	FP-R71312		w/Rear deep sump; Oil pump code 5003; Oil pan code 1906
1	Oil Filter to Block Gasket	FP-R43774		Filter housing code 5931

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R87858		
6	Liner w/Sealing Rings	FP-R87858WS		
6	Cylinder Kit Complete	FP-RE60294	STD	w/Con. Rod marked R71074; From Ser. No. 500,000
6	Cylinder Kit Complete	FP-RE48739	STD	w/Con. Rod marked R71074; To Ser. No. 499,999
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-RE57512	STD	From Ser. No. 500,000
6	Piston Body w/o Pin	FP-RE50868	STD	To Ser. No. 499,999
6	Piston Kit w/Pin & Retainers	FP-RE57512WP	STD	From Ser. No. 500,000
6	Piston Kit w/Pin & Retainers	FP-RE50868WP	STD	To Ser. No. 499,999
6	Pin	FP-R57771		
12	Piston Pin Retainer	FP-E1343FN		
6	Pin Bushing	FP-R74008		w/Con. Rod marked R71074; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R66452		w/Con. Rod marked R71074; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	FP-AR73277	STD	
6	Rod Pair	FP-AR73279	10	
6	Rod Pair	FP-AR73280	20	
6	Rod Pair	FP-AR73281	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE57517	STD	From Ser. No. 193,861
6	Ring Set Single Cylinder	FP-RE48380	STD	To Ser. No. 193,860; 2-5/32, 1-3/16 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-6076LIFK		w/Con. Rod marked R71074; From Ser. No. 500,000; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	FP-6076EIFK		w/Con. Rod marked R71074; To Ser. No. 499,999; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-6076LOHK		w/Con. Rod marked R71074; From Ser. No. 500,000; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-6076EOHK		w/Con. Rod marked R71074; To Ser. No. 499,999; Incl. Torque-To-Yield con. rod bolts

Power Unit **6081HN PowerTech Eng. (Natural Gas).** *Wheel Tractor* **6081HN PowerTech Eng. (Natural Gas).** **117**

8.1L 495.9 (8129cc) OHV Turbo-NG L6 (PowerTech 2V IC), 116mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	**FP-RE55475**		
1	Head Set	**FP-RE57186**		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Cap	**FP-T20129**		Exh. & Int.
24	Keeper	**FP-T20077**		1 groove; Square cut key groove; Hardened

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	**FP-RE11410**		Exh. & Int.
1	Oil Filler Cap Gasket	**FP-R80135**		Cover code 5205; L.H. Auxiliary drive
1	Oil Filler Cap Gasket	**FP-T20328**		Rocker arm cover codes 1105, 2912

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	**FP-R26058**		Rear
1	Timing Gear Cover Gasket	**FP-R50390**		Access cover

FUEL SYSTEM & PARTS

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	**FP-R105346**		w/Turbo oil line codes 6501, 6502, 6504, 6505, 6506, 6507, 6508, 6510, 6511, 6512, 6513, 6529, 6530, 6531
1	Turbocharger Mounting Gasket	**FP-R89879**		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Gasket	**FP-R119383**		Pump codes 2015, 5701; w/Pump housing marked R119795
1	Oil Seal	**FP-RE39134**		Water pump codes 2015, 5701; w/Pump housing marked R119795
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked R119795

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	**FP-AR72852**		Water manifold & thermostat codes 2114, 2202, 3901; 192 Deg.
1	Thermostat Gasket	**FP-R124211**		Water manifold & thermostat codes 2114, 2202, 3901

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	**FP-R88397**		Water manifold & thermostat codes 2114, 2202, 3901

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	**FP-R119384**		Timing gear & front seal codes 6201, 7701
1	Oil Pan Gasket	**FP-R49377**		w/Alum. oil pan w/shallow sump; Oil pan code 1901
1	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater code 2601; 1.475" X .118"
1	O-Ring	**FP-R71596**		Timing gear & front seal codes 6201, 7701; Plate seal

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	**FP-RE57187**		Crankshaft seals not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Cam Brg.	**FP-R87561**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	**FP-AR55394**		Oil cooler code 5901
1	Oil Cooler Bypass Gasket	**FP-R109625**		Adapter
1	Oil Cooler Housing Gasket	**FP-AR58952**		Oil cooler code 5901
2	Oil Cooler Adapter Gasket Set	**FP-R50424**		Oil cooler code 5901

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-SK49025**		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		Timing gear & front seal codes 6201, 7701

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE22764**		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	**FP-RE529319**	*STD*	
1	Flanged Main Brg.	**FP-RE529320**	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
4	O-Ring	**FP-R71732**		Oil cooler bypass tube seals
2	O-Ring	**FP-U17409**		Oil cooler relief valve plug seal; Filter & housing code 5901
1	O-Ring	**FP-R72328**		Rocker arm cover code 1110; Vent tube elbow seal

(continued on next page)

117 (cont.) *Power Unit* **6081HN PowerTech Eng. (Natural Gas).** *Wheel Tractor* **6081HN PowerTech Eng. (Natural Gas).**
8.1L 495.9 (8129cc) OHV Turbo-NG L6 (PowerTech 2V IC), 116mm Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	OIL PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
4	O-Ring	FP-R47153		Tube seal; Filter & housing code 5901
2	O-Ring	FP-R71732		Tube seal; Pump code 5002
1	Rect. or Square Seal	FP-R43660		Filter seal; Filter & housing code 5901
1	Oil Filter Seal Ring	FP-R26163		Turbocharger elbow seal
1	Oil Filter Base Gasket	FP-R119847		Filter & housing code 5901

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R57771		
12	Piston Pin Retainer	FP-E1343FN		
6	Pin Bushing	FP-R74008		1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R66452		w/Con. Rod marked R116340; Torque-To-Yield bolt; Replacement recommended
6	Rod Bearing Half Upper/Lower	FP-R525767	*STD*	

118 *Off-Highway Truck* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Combine* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Cotton Picker* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Harvester* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Grader* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Power Unit* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Scraper* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Wheel Tractor* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Crawler Tractor* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Loader Tractor* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Forestry Tractor* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Excavator* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Skidder* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Logger* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Feller Buncher* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Forage Harvester* **6081H PowerTech Eng. (2-Valve Cyl. Head).**
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V IC), 116mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R49866		Rocker cover codes 1102, 1105, 2912
1	Head Gasket	FP-RE55475		
1	Head Set	FP-RE57186		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R84618	*STD*	1 groove; Chrome plated stem; 2.0080" Head Dia., .3730" Stem Dia., 6.0600" O.A.L.
6	Intake	FP-R93308	*3*	1 groove; Chrome plated stem; 2.0080" Head Dia., .3760" Stem Dia., 6.0600" O.A.L.
6	Exhaust	FP-R84619	*STD*	1 groove; Chrome plated stem; 1.8500" Head Dia., .3720" Stem Dia., 6.1780" O.A.L.
6	Exhaust	FP-R93311	*3*	1 groove; Chrome plated stem; 1.8500" Head Dia., .3750" Stem Dia., 6.1780" O.A.L.
12	Valve Stem Cap	FP-T20129		Exh. & Int.
24	Keeper	FP-T20077		Exh. & Int.; 1 groove; Square cut key groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R119132	*STD*	
6	Exh.	FP-R93349	*10*	
6	Int.	FP-R121193	*STD*	
6	Int.	FP-R93350	*10*	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R91822		Exh. & Int.

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE11410		Exh. & Int.
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover codes 1105, 2912

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Code 3143; 12 Volt, 90 amp alternator; Poly-Vee fan drive

(continued on next page)

118 (cont.)

***Off-Highway Truck* 6081H PowerTech Eng. (2-Valve Cyl. Head). *Combine* 6081H PowerTech Eng. (2-Valve Cyl. Head). *Cotton Picker* 6081H PowerTech Eng. (2-Valve Cyl. Head). *Harvester* 6081H PowerTech Eng. (2-Valve Cyl. Head). *Grader* 6081H PowerTech Eng. (2-Valve Cyl. Head). *Power Unit* 6081H PowerTech Eng. (2-Valve Cyl. Head). *Scraper* 6081H PowerTech Eng. (2-Valve Cyl. Head). *Wheel Tractor* 6081H PowerTech Eng. (2-Valve Cyl. Head). *Crawler Tractor* 6081H PowerTech Eng. (2-Valve Cyl. Head). *Loader Tractor* 6081H PowerTech Eng. (2-Valve Cyl. Head). *Forestry Tractor* 6081H PowerTech Eng. (2-Valve Cyl. Head). *Excavator* 6081H PowerTech Eng. (2-Valve Cyl. Head). *Skidder* 6081H PowerTech Eng. (2-Valve Cyl. Head). *Logger* 6081H PowerTech Eng. (2-Valve Cyl. Head). *Feller Buncher* 6081H PowerTech Eng. (2-Valve Cyl. Head). *Forage Harvester* 6081H PowerTech Eng. (2-Valve Cyl. Head).**

8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V IC), 116mm Bore

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	*PART NO.*	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	**FP-R83020**		Codes 2802, 3830; w/two holes; Two Exh. holes
2	Exhaust Manifold Gasket	**FP-R83021**		Codes 2802, 3830; One Exh. hole
3	Intake Manifold Gasket	**FP-R130573**		w/Int. manifolds R127427, R131652

CAMSHAFT GROUP

QTY	TIMING COVER	*PART NO.*	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	**FP-R26058**		Housing to block gskt.

QTY	CAMSHAFT/LIFTER	*PART NO.*	SIZE	DESCRIPTION
1	Camshaft Plug	**FP-R82007**		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	*PART NO.*	SIZE	DESCRIPTION
1	Washer	**FP-R53899**		Control valve to pump housing seal; Inj. pump housing connector codes 1616, 1621, 1632, 1633, 1634, 1635, 1636, 1641, 1655, 1657, 1658, 1659
2	Washer	**FP-R53901**		Fuel inj. pump connector seal; Filter & line codes 1603, 1604, 1605, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1615, 1617, 1618, 1619, 1620, 1622, 1623, 1624, 1640, 1656, 1676; w/Bosch pump
6	Washer	**FP-R84472**		Injector nozzle; Nozzle codes 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1613, 1615, 1620, 1621, 1622, 1624, 1630, 1632, 1633, 1635, 1639, 1642, 1648, 1651, 1655, 1657, 1659, 1661, 1662, 1663, 1676; .290" X .715" X .079"
6	Fuel Injector Nut	**FP-R79604**		Injector line codes 1601, 1602
13	Washer Type Seal	**FP-R51936**		Fuel line; Line codes 1601, 1602, 1603, 1604, 1605, 1606, 1608, 1610, 1611, 1612, 1616, 1617, 1618, 1619, 1632, 1634, 1636, 1640, 1641, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1656, 1661, 1662, 1663, 1667

QTY	TURBOCHARGER	*PART NO.*	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	**FP-R105346**		w/Turbo oil line codes 6501, 6503, 6504, 6505, 6506, 6507, 6508, 6510, 6511, 6512, 6513, 6529, 6530, 6531
1	Turbocharger Mounting Gasket	**FP-R89879**		
1	O-Ring	**FP-R86743**		Outer coupling
1	Turbo Exhaust Int. Cover Gskt	**FP-R92097**		Turbo code 6514

COOLING SYSTEM

QTY	WATER PUMP	*PART NO.*	SIZE	DESCRIPTION
2	Ball Brg.	**FP-JD10329**		Fan hub shaft bearing
1	Water Pump Gasket	**FP-R119383**		w/Pump housing marked R119795; w/15 tooth gear; High flow
1	Water Pump Gasket	**FP-R119383**		w/Pump housing marked R119795; w/16 tooth gear; Low flow
1	Oil Seal	**FP-RE39134**		Water pump codes 2001, 2004; w/Pump housing marked R119795
1	Water Pump Hub	**FP-JD10058**		w/Fan Hub bearing codes 2305, 2306, 2335, 2336, 2337, 2338, 2339
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked R119795

QTY	THERMOSTAT	*PART NO.*	SIZE	DESCRIPTION
2	Thermostat	**FP-AR48675**		Thermostat code 2204; 180 Deg.
1	Thermostat Gasket	**FP-R124211**		Thermostat housing to cyl. head
1	Thermostat Cover Gasket	**FP-R46479**		Thermostat cover codes 2102, 2114; Two hole
1	Therm. Hsg. - Water Mfld. Gsk	**FP-R86062**		Housing to cyl. head

QTY	MISCELLANEOUS	*PART NO.*	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	**FP-R88397**		

ENGINE BLOCK & PARTS

QTY	GASKETS	*PART NO.*	SIZE	DESCRIPTION
1	Front Cover Gasket	**FP-R125670**		Air compressor to timing cover; Midland or Holset

(continued on next page)

118 (cont.) *Off-Highway Truck* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Combine* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Cotton Picker* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Harvester* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Grader* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Power Unit* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Scraper* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Wheel Tractor* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Crawler Tractor* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Loader Tractor* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Forestry Tractor* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Excavator* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Skidder* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Logger* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Feller Buncher* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Forage Harvester* **6081H PowerTech Eng. (2-Valve Cyl. Head).**
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V IC), 116mm Bore

ENGINE BLOCK & PARTS (cont.)

QTY	GASKETS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	FP-R119384		Timing gear cover
1	Oil Pan Gasket	FP-R49377		w/Alum. pan; Oil pan codes 1906, 1909, 1914, 1916
1	Oil Pan Gasket	FP-R71918		w/Cast Iron pan
1	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-RE57187		From Ser. No. 500,000; Crankshaft seals not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Cam Brg.	FP-R87561		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket	FP-R88993		w/Int. manifold codes 1703, 1738
2	Aftercooler Gasket	FP-R88993		w/Int. manifold codes 1705, 1737
1	Oil Cooler	FP-AR55394		
4	O-Ring	FP-R47153		Cooler tube; Cooler code 5901
4	O-Ring	FP-R47153		Oil filter tube; Filter code 5901
1	Oil Cooler Housing Gasket	FP-AR58952		
2	Oil Cooler Adapter Gasket Set	FP-R50424		

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-AR49025		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE22764		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE529319	STD	
1	Flanged Main Brg.	FP-RE529320	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-U17409		Oil cooler relief valve plug seal; Filter & housing code 5901
1	Oil Pump Intake Gasket	FP-R100569		Oil pump pickup codes 1906, 1909, 1916
1	Oil Filter Base Gasket	FP-R119847		Housing to block gskt.

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R520212	STD	
6	Cylinder Kit Complete	FP-RE508156 *	STD	For Low Compression Engines
6	Cylinder Kit Complete	FP-RE64509	STD	Use w/pistons marked RE64170, RE65289, RE70688; For High Compression Engines
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-RE70688	STD	For High Compression Engines
6	Piston Body w/o Pin	FP-RE516291 *	STD	For Low Compression Engines
6	Pin	FP-R57771		
12	Piston Pin Retainer	FP-E1343FN		
6	Pin Bushing	FP-R74008		w/Con. Rod marked R11634, R501034; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R501035		Fractured split rod
12	Con. Rod Bolt	FP-R66452		To Ser. No. 086,535; w/Con. Rod marked R116340; Machine split rod; Torque-To-Yield bolt; Replacement recommended
6	Rod Bearing Half Upper/Lower	FP-R525767	STD	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE503528	STD	

(continued on next page)

* New Item — Check For Availability

118 (cont.)

Off-Highway Truck **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Combine* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Cotton Picker* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Harvester* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Grader* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Power Unit* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Scraper* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Wheel Tractor* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Crawler Tractor* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Loader Tractor* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Forestry Tractor* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Excavator* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Skidder* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Logger* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Feller Buncher* **6081H PowerTech Eng. (2-Valve Cyl. Head).** *Forage Harvester* **6081H PowerTech Eng. (2-Valve Cyl. Head).**

8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V IC), 116mm Bore

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-IFKPT6081**		
1	Complete Overhaul Kit	**FP-OHPT6081**		

119

Off-Highway Truck **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Combine* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Cotton Picker* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Harvester* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Grader* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Power Unit* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Scraper* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Wheel Tractor* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Crawler Tractor* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Loader Tractor* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Forestry Tractor* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Excavator* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Skidder* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Logger* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Feller Buncher* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Forage Harvester* **6081A PowerTech Eng. (2-Valve Cyl. Head).**

8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V AC), 116mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R49866**		Rocker cover codes 1102, 1105, 2912
1	Head Gasket	**FP-RE55475**		
1	Head Set	**FP-RE57186**		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-R84618**	*STD*	1 groove; Chrome plated stem; 2.0080" Head Dia., .3730" Stem Dia., 6.0600" O.A.L.
6	Intake	**FP-R93308**	*3*	1 groove; Chrome plated stem; 2.0080" Head Dia., .3760" Stem Dia., 6.0600" O.A.L.
6	Exhaust	**FP-R84619**	*STD*	1 groove; Chrome plated stem; 1.8500" Head Dia., .3720" Stem Dia., 6.1780" O.A.L.
6	Exhaust	**FP-R93311**	*3*	1 groove; Chrome plated stem; 1.8500" Head Dia., .3750" Stem Dia., 6.1780" O.A.L.
12	Valve Stem Cap	**FP-T20129**		Exh. & Int.
24	Keeper	**FP-T20077**		Exh. & Int.; 1 groove; Square cut key groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	**FP-R119132**	*STD*	
6	Exh.	**FP-R93349**	*10*	
6	Int.	**FP-R121193**	*STD*	
6	Int.	**FP-R93350**	*10*	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	**FP-R91822**		Exh. & Int.

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	**FP-RE11410**		Exh. & Int.
1	Oil Filler Cap Gasket	**FP-T20328**		Rocker arm cover codes 1105, 2912

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	**FP-JD9449**		Front; Code 3143; 12 Volt, 90 amp alternator; Poly-Vee fan drive

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	**FP-R83020**		Codes 2802, 3830; w/two holes; Two Exh. holes
2	Exhaust Manifold Gasket	**FP-R83021**		Codes 2802, 3830; One Exh. hole
3	Intake Manifold Gasket	**FP-R130573**		w/Int. manifolds R127427, R131652

(continued on next page)

119 (cont.) *Off-Highway Truck* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Combine* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Cotton Picker* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Harvester* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Grader* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Power Unit* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Scraper* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Wheel Tractor* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Crawler Tractor* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Loader Tractor* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Forestry Tractor* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Excavator* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Skidder* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Logger* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Feller Buncher* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Forage Harvester* **6081A PowerTech Eng. (2-Valve Cyl. Head).**
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V AC), 116mm Bore

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	FP-R26058		Housing to block gskt.

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	FP-R82007		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R53899		Control valve to pump housing seal; Inj. pump housing connector codes 1616, 1621, 1632, 1633, 1634, 1635, 1636, 1641, 1655, 1657, 1658, 1659
2	Washer	FP-R53901		Fuel inj. pump connector seal; Filter & line codes 1603, 1604, 1605, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1615, 1617, 1618, 1619, 1620, 1622, 1623, 1624, 1640, 1656, 1676; w/Bosch pump
6	Washer	FP-R84472		Injector nozzle; Nozzle codes 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1613, 1615, 1620, 1621, 1622, 1624, 1630, 1632, 1633, 1635, 1639, 1642, 1648, 1651, 1655, 1657, 1659, 1661, 1662, 1663, 1676; .290" X .715" X .079"
6	Fuel Injector Nut	FP-R79604		Injector line codes 1601, 1602
13	Washer Type Seal	FP-R51936		Fuel line; Line codes 1601, 1602, 1603, 1604, 1605, 1606, 1608, 1610, 1611, 1612, 1616, 1617, 1618, 1619, 1632, 1634, 1636, 1640, 1641, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1656, 1661, 1662, 1663, 1667

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		w/Turbo oil line codes 6501, 6503, 6504, 6505, 6506, 6507, 6508, 6510, 6511, 6512, 6513, 6529, 6530, 6531
1	Turbocharger Mounting Gasket	FP-R89879		
1	O-Ring	FP-R86743		Outer coupling
1	Turbo Exhaust Int. Cover Gskt	FP-R92097		Turbo code 6514

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
2	Ball Brg.	FP-JD10329		Fan hub shaft bearing
1	Water Pump Gasket	FP-R119383		w/Pump housing marked R119795; w/15 tooth gear; High flow
1	Water Pump Gasket	FP-R119383		w/Pump housing marked R119795; w/16 tooth gear; Low flow
1	Oil Seal	FP-RE39134		Water pump codes 2001, 2004; w/Pump housing marked R119795
1	Water Pump Hub	FP-JD10058		w/Fan Hub bearing codes 2305, 2306, 2335, 2336, 2337, 2338, 2339
1	Water Pump Filter	FP-R98527		w/Pump housing marked R119795

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2204; 180 Deg.
1	Thermostat Gasket	FP-R124211		Thermostat housing to cyl. head
1	Thermostat Cover Gasket	FP-R46479		Thermostat cover codes 2102, 2114; Two hole
1	Therm. Hsg. - Water Mfld. Gsk	FP-R86062		Housing to cyl. head

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	FP-R88397		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	FP-R125670		Air compressor to timing cover; Midland or Holset
1	Front Cover Gasket	FP-R119384		Timing gear cover
1	Oil Pan Gasket	FP-R49377		w/Alum. pan; Oil pan codes 1906, 1909, 1914, 1916
1	Oil Pan Gasket	FP-R71918		w/Cast Iron pan
1	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

(continued on next page)

119 (cont.)

Off-Highway Truck **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Combine* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Cotton Picker* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Harvester* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Grader* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Power Unit* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Scraper* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Wheel Tractor* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Crawler Tractor* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Loader Tractor* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Forestry Tractor* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Excavator* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Skidder* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Logger* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Feller Buncher* **6081A PowerTech Eng. (2-Valve Cyl. Head).** *Forage Harvester* **6081A PowerTech Eng. (2-Valve Cyl. Head).**

8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V AC), 116mm Bore

ENGINE BLOCK & PARTS (cont.)

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	**FP-RE57187**		From Ser. No. 500,000; Crankshaft seals not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Cam Brg.	**FP-R87561**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket	**FP-R88993**		w/Int. manifold codes 1703, 1738
2	Aftercooler Gasket	**FP-R88993**		w/Int. manifold codes 1705, 1737
1	Oil Cooler	**FP-AR55394**		
4	O-Ring	**FP-R47153**		Cooler tube; Cooler code 5901
4	O-Ring	**FP-R47153**		Oil filter tube; Filter code 5901
1	Oil Cooler Housing Gasket	**FP-AR58952**		
2	Oil Cooler Adapter Gasket Set	**FP-R50424**		

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE22764**		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	**FP-RE529319**	*STD*	
1	Flanged Main Brg.	**FP-RE529320**	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	O-Ring	**FP-U17409**		Oil cooler relief valve plug seal; Filter & housing code 5901
1	Oil Pump Intake Gasket	**FP-R100569**		Oil pump pickup codes 1906, 1909, 1916
1	Oil Filter Base Gasket	**FP-R119847**		Housing to block gskt.

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R520212**	*STD*	
6	Cylinder Kit Complete	**FP-RE508156 ***	*STD*	For Low Compression Engines
6	Cylinder Kit Complete	**FP-RE64509**	*STD*	Use w/pistons marked RE64170, RE65289, RE70688; For High Compression Engines
6	Cyl. Liner Sealing Ring Kit	**FP-AR98850**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-RE516291 ***	*STD*	For Low Compression Engines
6	Piston Body w/o Pin	**FP-RE70688**	*STD*	Used w/piston marked RE64170, RE65289, RE70688; For High Compression Engines
6	Pin	**FP-R57771**		
12	Piston Pin Retainer	**FP-E1343FN**		
6	Pin Bushing	**FP-R74008**		w/Con. Rod marked R11634, R501034; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R501035**		Fractured split rod
12	Con. Rod Bolt	**FP-R66452**		To Ser. No. 086,535; w/Con. Rod marked R116340; Machine split rod; Torque-To-Yield bolt; Replacement recommended
6	Rod Bearing Half Upper/Lower	**FP-R525767**	*STD*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-RE503528**	*STD*	

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-IFKPT6081**		
1	Complete Overhaul Kit	**FP-OHPT6081**		

120 *Power Unit* 6081TN PowerTech Eng. (Natural Gas). *Wheel Tractor* 6081TN PowerTech Eng. (Natural Gas).

8.1L 495.9 (8129cc) OHV Turbo-NG L6 (PowerTech 2V), 116mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	FP-RE55475		
1	Head Set	FP-RE57186		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Cap	FP-T20129		Exh. & Int.
24	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE11410		Exh. & Int.
1	Oil Filler Cap Gasket	FP-R80135		Cover code 5205; L.H. Auxiliary drive
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover codes 1105, 2912

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	FP-R26058		Rear
1	Timing Gear Cover Gasket	FP-R50390		Access cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	FP-R82007		

FUEL SYSTEM & PARTS

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		w/Turbo oil line codes 6501, 6502, 6504, 6505, 6506, 6507, 6508, 6510, 6511, 6512, 6513, 6529, 6530, 6531
1	Turbocharger Mounting Gasket	FP-R89879		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Gasket	FP-R119383		Pump codes 2015, 5701; w/Pump housing marked R119795
1	Oil Seal	FP-RE39134		Water pump codes 2015, 5701; w/Pump housing marked R119795
1	Water Pump Filter	FP-R98527		w/Pump housing marked R119795

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR72852		Water manifold & thermostat codes 2114, 2202, 3901; 192 Deg.
1	Thermostat Gasket	FP-R124211		Water manifold & thermostat codes 2114, 2202, 3901

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	FP-R88397		Water manifold & thermostat codes 2114, 2202, 3901

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	FP-R119384		Timing gear & front seal codes 6201, 7701
1	Oil Pan Gasket	FP-R49377		w/Alum. oil pan w/shallow sump; Oil pan code 1901
1	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater code 2601; 1.475" X .118"
1	O-Ring	FP-R71596		Timing gear & front seal codes 6201, 7701; Plate seal

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-RE57187		Crankshaft seals not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Cam Brg.	FP-R87561		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	FP-AR55394		Oil cooler code 5901
1	Oil Cooler Bypass Gasket	FP-R109625		Adapter
1	Oil Cooler Housing Gasket	FP-AR58952		Oil cooler code 5901
2	Oil Cooler Adapter Gasket Set	FP-R50424		Oil cooler code 5901

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-AR49025		Timing gear & front seal codes 6201, 7701

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE22764		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE529319	*STD*	
1	Flanged Main Brg.	FP-RE529320	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
4	O-Ring	FP-R71732		Oil cooler bypass tube seals
2	O-Ring	FP-U17409		Oil cooler relief valve plug seal; Filter & housing code 5901
1	O-Ring	FP-R72328		Rocker arm cover code 1110; Vent tube elbow seal

(continued on next page)

Power Unit **6081TN PowerTech Eng. (Natural Gas).** *Wheel Tractor* **6081TN PowerTech Eng. (Natural Gas).** **120 (cont.)**

8.1L 495.9 (8129cc) OHV Turbo-NG L6 (PowerTech 2V), 116mm Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	OIL PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
4	O-Ring	FP-R47153		Tube seal; Filter & housing code 5901
2	O-Ring	FP-R71732		Tube seal; Pump code 5002
1	Rect. or Square Seal	FP-R43660		Filter seal; Filter & housing code 5901
1	Oil Filter Seal Ring	FP-R26163		Turbocharger elbow seal
1	Oil Filter Base Gasket	FP-R119847		Filter & housing code 5901

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R57771		
12	Piston Pin Retainer	FP-E1343FN		
6	Pin Bushing	FP-R74008		1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R66452		w/Con. Rod marked R116340; Torque-To-Yield bolt; Replacement recommended
6	Rod Bearing Half Upper/Lower	FP-R525767	STD	

Combine **6081T PowerTech Eng.** *Cotton Picker* **6081T PowerTech Eng.** *Harvester* **6081T PowerTech Eng.** *Grader* **6081T PowerTech Eng.** *Power Unit* **6081T PowerTech Eng.** *Scraper* **6081T PowerTech Eng.** *Wheel Tractor* **6081T PowerTech Eng.** *Crawler Tractor* **6081T PowerTech Eng.** *Loader Tractor* **6081T PowerTech Eng.** *Forestry Tractor* **6081T PowerTech Eng.** *Excavator* **6081T PowerTech Eng.** *Skidder* **6081T PowerTech Eng.** *Sprayer* **6081T PowerTech Eng.** *Logger* **6081T PowerTech Eng.** *Feller Buncher* **6081T PowerTech Eng.** **121**

8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V), 116mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R49866		Rocker cover codes 1102, 1105, 2912
1	Head Gasket	FP-RE55475		
1	Head Set	FP-RE57186		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R84618	STD	1 groove; Chrome plated stem; 2.0080" Head Dia., .3730" Stem Dia., 6.0600" O.A.L.
6	Intake	FP-R93308	3	1 groove; Chrome plated stem; 2.0080" Head Dia., .3760" Stem Dia., 6.0600" O.A.L.
6	Exhaust	FP-R84619	STD	1 groove; Chrome plated stem; 1.8500" Head Dia., .3720" Stem Dia., 6.1780" O.A.L.
6	Exhaust	FP-R93311	3	1 groove; Chrome plated stem; 1.8500" Head Dia., .3750" Stem Dia., 6.1780" O.A.L.
12	Valve Stem Cap	FP-T20129		Exh. & Int.
24	Keeper	FP-T20077		Exh. & Int.; 1 groove; Square cut key groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R119132	STD	
6	Exh.	FP-R93349	10	
6	Int.	FP-R121193	STD	
6	Int.	FP-R93350	10	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R91822		Exh. & Int.

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE11410		Exh. & Int.
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover codes 1105, 2912

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Code 3143; 12 Volt, 90 amp alternator; Poly-Vee fan drive

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	FP-R83020		Codes 2802, 3830; w/two holes; Two Exh. holes
2	Exhaust Manifold Gasket	FP-R83021		Codes 2802, 3830; One Exh. hole
3	Intake Manifold Gasket	FP-R130573		w/Int. manifolds R127427, R131652

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121 (cont.) *Combine* **6081T PowerTech Eng.** *Cotton Picker* **6081T PowerTech Eng.** *Harvester* **6081T PowerTech Eng.** *Grader* **6081T PowerTech Eng.** *Power Unit* **6081T PowerTech Eng.** *Scraper* **6081T PowerTech Eng.** *Wheel Tractor* **6081T PowerTech Eng.** *Crawler Tractor* **6081T PowerTech Eng.** *Loader Tractor* **6081T PowerTech Eng.** *Forestry Tractor* **6081T PowerTech Eng.** *Excavator* **6081T PowerTech Eng.** *Skidder* **6081T PowerTech Eng.** *Sprayer* **6081T PowerTech Eng.** *Logger* **6081T PowerTech Eng.** *Feller Buncher* **6081T PowerTech Eng.**
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V), 116mm Bore

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	FP-R26058		Housing to block gskt.

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	FP-R82007		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R53899		Control valve to pump housing seal; Inj. pump housing connector codes 1616, 1621, 1632, 1633, 1634, 1635, 1636, 1641, 1655, 1657, 1658, 1659
2	Washer	FP-R53901		Fuel inj. pump connector seal; Filter & line codes 1603, 1604, 1605, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1615, 1617, 1618, 1619, 1620, 1622, 1623, 1624, 1640, 1656, 1676; w/Bosch pump
6	Washer	FP-R84472		Injector nozzle; Nozzle codes 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1613, 1615, 1620, 1621, 1622, 1624, 1630, 1632, 1633, 1635, 1639, 1642, 1648, 1651, 1655, 1657, 1659, 1661, 1662, 1663, 1676; .290" X .715" X .079"
6	Fuel Injector Nut	FP-R79604		Injector line codes 1601, 1602
13	Washer Type Seal	FP-R51936		Fuel line; Line codes 1601, 1602, 1603, 1604, 1605, 1606, 1608, 1610, 1611, 1612, 1616, 1617, 1618, 1619, 1632, 1634, 1636, 1640, 1641, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1656, 1661, 1662, 1663, 1667

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		w/Turbo oil line codes 6501, 6503, 6504, 6505, 6506, 6507, 6508, 6510, 6511, 6512, 6513, 6529, 6530, 6531
1	Turbocharger Mounting Gasket	FP-R89879		
1	O-Ring	FP-R86743		Outer coupling
1	Turbo Exhaust Int. Cover Gskt	FP-R92097		Turbo code 6514

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
2	Ball Brg.	FP-JD10329		Fan hub shaft bearing
1	Water Pump Gasket	FP-R119383		w/Pump housing marked R119795; w/15 tooth gear; High flow
1	Water Pump Gasket	FP-R119383		w/Pump housing marked R119795; w/16 tooth gear; Low flow
1	Oil Seal	FP-RE39134		Water pump codes 2001, 2004; w/Pump housing marked R119795
1	Water Pump Hub	FP-JD10058		w/Fan Hub bearing codes 2305, 2306, 2335, 2336, 2337, 2338, 2339
1	Water Pump Filter	FP-R98527		w/Pump housing marked R119795

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2204; 180 Deg.
1	Thermostat Gasket	FP-R124211		Thermostat housing to cyl. head
1	Thermostat Cover Gasket	FP-R46479		Thermostat cover codes 2102, 2114; Two hole
1	Therm. Hsg. - Water Mfld. Gsk	FP-R86062		Housing to cyl. head

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	FP-R88397		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	FP-R125670		Air compressor to timing cover; Midland or Holset
1	Front Cover Gasket	FP-R119384		Timing gear cover
1	Oil Pan Gasket	FP-R49377		w/Alum. pan; Oil pan codes 1906, 1909, 1914, 1916
1	Oil Pan Gasket	FP-R71918		w/Cast Iron pan
1	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-RE57187		From Ser. No. 500,000; Crankshaft seals not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Cam Brg.	FP-R87561		

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121 (cont.)

Combine **6081T PowerTech Eng.** *Cotton Picker* **6081T PowerTech Eng.** *Harvester* **6081T PowerTech Eng.** *Grader* **6081T PowerTech Eng.** *Power Unit* **6081T PowerTech Eng.** *Scraper* **6081T PowerTech Eng.** *Wheel Tractor* **6081T PowerTech Eng.** *Crawler Tractor* **6081T PowerTech Eng.** *Loader Tractor* **6081T PowerTech Eng.** *Forestry Tractor* **6081T PowerTech Eng.** *Excavator* **6081T PowerTech Eng.** *Skidder* **6081T PowerTech Eng.** *Sprayer* **6081T PowerTech Eng.** *Logger* **6081T PowerTech Eng.** *Feller Buncher* **6081T PowerTech Eng.**

8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V), 116mm Bore

ENGINE BLOCK & PARTS (cont.)

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket	**FP-R88993**		w/Int. manifold codes 1703, 1738
2	Aftercooler Gasket	**FP-R88993**		w/Int. manifold codes 1705, 1737
1	Oil Cooler	**FP-AR55394**		
4	O-Ring	**FP-R47153**		Cooler tube; Cooler code 5901
4	O-Ring	**FP-R47153**		Oil filter tube; Filter code 5901
1	Oil Cooler Housing Gasket	**FP-AR58952**		
2	Oil Cooler Adapter Gasket Set	**FP-R50424**		

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE22764**		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	**FP-RE529319**	*STD*	
1	Flanged Main Brg.	**FP-RE529320**	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	O-Ring	**FP-U17409**		Oil cooler relief valve plug seal; Filter & housing code 5901
1	Oil Pump Intake Gasket	**FP-R100569**		Oil pump pickup codes 1906, 1909, 1916
1	Oil Filter Base Gasket	**FP-R119847**		Housing to block gskt.

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R520212**	*STD*	
6	Cylinder Kit Complete	**FP-RE508156** *	*STD*	For Low Compression Engines
6	Cylinder Kit Complete	**FP-RE64509**	*STD*	Use w/pistons marked RE64170, RE65289, RE70688; For High Compression Engines
6	Cyl. Liner Sealing Ring Kit	**FP-AR98850**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-RE516291** *	*STD*	For Low Compression Engines
6	Piston Body w/o Pin	**FP-RE70688**	*STD*	Used w/piston marked RE64170, RE65289, RE70688; For High Compression Engines
6	Pin	**FP-R57771**		
12	Piston Pin Retainer	**FP-E1343FN**		
6	Pin Bushing	**FP-R74008**		w/Con. Rod marked R11634, R501034; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R501035**		Fractured split rod
12	Con. Rod Bolt	**FP-R66452**		To Ser. No. 086,535; w/Con. Rod marked R116340; Machine split rod; Torque-To-Yield bolt; Replacement recommended
6	Rod Bearing Half Upper/Lower	**FP-R525767**	*STD*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-RE503528**	*STD*	

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-IFKPT6081**		
1	Complete Overhaul Kit	**FP-OHPT6081**		

122

Scraper **6531D Eng.** *Wheel Tractor* **6531D Eng.** *Loader Tractor* **6531D Eng.** *Backhoe* **6531D Eng.**

8.7L 531 OHV Diesel L6, 4.75" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R74365**		
1	Head Gasket	**FP-R78513**		
1	Head Set	**FP-AR53613**		

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122 (cont.) *Scraper* 6531D Eng. *Wheel Tractor* 6531D Eng. *Loader Tractor* 6531D Eng. *Backhoe* 6531D Eng.

8.7L 531 OHV Diesel L6, 4.75" Bore

CYL. HEAD & PARTS (cont.)

QTY	GASKETS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Ventilator Pump Gasket	FP-R31340		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R42182	STD	Chrome plated stem; 2.1500" Head Dia., .4340" Stem Dia., 6.5960" O.A.L.
6	Exhaust	FP-R45823	STD	Chrome plated stem
12	Valve Stem Cap	FP-R40366		Exh. & Int.
24	Keeper	FP-R35431		Exh. & Int.

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	FP-R53192		Exh. & Int.; .4375" ID, 3.1880" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R35157		Exh. & Int.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	ST-2007		Positive type; Rubber
6	O-Ring	FP-R35155		Int.

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Motorola; 12 Volt, 72 amp alternator

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	Hour Meter Housing Gasket	FP-R26173		
1	Speed/Hour Meter Gasket	FP-R44853		

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	FP-R35067		Inner
2	Exhaust Manifold Gasket	FP-R35068		Outer
3	Intake Manifold Gasket	FP-R35293		One Int. hole
3	Intake Manifold Gasket	FP-R40088		Two Int. holes
2	Int. Manif. Cover Plate Gskt.	FP-R40090		Cover & inlet elbow gskt.; To Ser. No. 284,617

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-R35126		

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	FP-R26115		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R35349		Gear cover
1	Washer	FP-R40777		Ventilator pump housing
6	Washer	FP-R463R		Injector nozzle; Copper
12	Clamp	FP-R34766		Pump codes 1602, 1603

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Cover Gasket	FP-R35263		w/Pump housing marked R36812; Cover to block gskt.
1	Water Pump Cover Gasket	FP-R35262		Inner; w/Pump housing marked R36812
1	Shaft & Bearing Assembly	FP-JD9257		w/Pump housing marked R36812

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat Cover Gasket	FP-R42694		One hole

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	FP-R88397		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R71919		
1	Washer	FP-R35034		Oil filter cover packing

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG531DS		
1	Complete Overhaul Gasket Set	FP-AR53614		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-AR53614WS		Incl. Crankshaft seals

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Scraper **6531D Eng.** *Wheel Tractor* **6531D Eng.** *Loader Tractor* **6531D Eng.** *Backhoe* **6531D Eng.** **(cont.)** **122**

8.7L 531 OHV Diesel L6, 4.75" Bore

ENGINE BLOCK & PARTS (cont.)

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-4R46903**	*STD*	
4	Cam Brg.	**FP-R46903**	*STD*	

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
2	Oil Cooler Gasket	**FP-R27948**		
1	O-Ring	**FP-R375R**		Cooler inlet pipe
1	Oil Cooler to Block Gasket	**FP-R35105**		Front
1	Oil Cooler to Block Gasket	**FP-R35104**		Rear

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-AR92533**		
1	Oil Seal Kit	**FP-SK13310**		Incl. Seal & Wear sleeve

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE13310**		
1	Crankshaft Rear Housing Gskt.	**FP-R35043**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK531**	*STD*	w/full groove lower brg.; Flanged No. 5 brg.
1	Main Set	**FP-MBK53110**	*10*	w/full groove lower brg.; Flanged No. 5 brg.
1	Main Set	**FP-MBK53120**	*20*	w/full groove lower brg.; Flanged No. 5 brg.
1	Main Set	**FP-MBK53130**	*30*	w/full groove lower brg.; Flanged No. 5 brg.
1	Main Set	**FP-MBK619**	*STD*	w/partial groove lower brg.
1	Main Set	**FP-MBK61910**	*10*	w/partial groove lower brg.
1	Main Set	**FP-MBK61920**	*20*	w/partial groove lower brg.
1	Main Set	**FP-MBK61930**	*30*	w/partial groove lower brg.
6	Plain Main Brg.	**FP-AR101266**	*STD*	
6	Plain Main Brg.	**FP-AR104568**	*.25MM*	
6	Plain Main Brg.	**FP-AR104569**	*.50MM*	
6	Plain Main Brg.	**FP-AR104570**	*.75MM*	
6	Plain Main Brg.	**FP-AR101268**	*STD*	w/partial groove lower brg.
6	Plain Main Brg.	**FP-AR104122**	*.25MM*	w/partial groove lower brg.
6	Plain Main Brg.	**FP-AR104123**	*.50MM*	w/partial groove lower brg.
6	Plain Main Brg.	**FP-AR104124**	*.75MM*	w/partial groove lower brg.
1	Plain Main Brg.	**FP-AR101269**	*STD*	w/partial groove lower brg.; Use w/Thrust Washer Set
1	Plain Main Brg.	**FP-AR104126**	*.25MM*	w/partial groove lower brg.; Use w/Thrust Washer Set
1	Plain Main Brg.	**FP-AR104127**	*.50MM*	w/partial groove lower brg.; Use w/Thrust Washer Set
1	Plain Main Brg.	**FP-AR104128**	*.75MM*	w/partial groove lower brg.; Use w/Thrust Washer Set
1	Flanged Main Brg.	**FP-AR101267**	*STD*	
1	Flanged Main Brg.	**FP-AR104564**	*.25MM*	
1	Flanged Main Brg.	**FP-AR104565**	*.50MM*	
1	Flanged Main Brg.	**FP-AR104566**	*.75MM*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R495R**		Ventilator tube; Rocker cover codes 1102, 1104; Smooth
1	Oil Filter Body Gasket	**FP-R35032**		

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R35124**		Early Engs.
6	Liner w/o Sealing Ring	**FP-R42366**		Late Engs.
6	Liner w/Sealing Rings	**FP-R35124WS**		Early Engs.
6	Liner w/Sealing Rings	**FP-R42366WS**		Late Engs.
6	Cylinder Kit Complete	**FP-CK45065124**		Early Engs.; w/Block marked R35130; w/Con. Rod marked R35048, R40238, R53286, R58881, R66927
6	Cylinder Kit Complete	**FP-CK65482366**	*STD*	Late Engs.; w/Block marked R40270, R42370, R45300, R47510; w/Con. Rod marked R35048, R40238, R53286, R58881, R66927
6	Cyl. Liner Sealing Ring Kit	**FP-AR35992**		Early Engs.
6	Cyl. Liner Sealing Ring Kit	**FP-AR55951**		Late Engs.
6	Sealing Ring	**FP-SLR2482**		Late Engs.
6	Sealing Ring	**FP-SLR2498**		Late Engs.

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-AR44506**		Early Engs.
6	Piston Body w/o Pin	**FP-RE16548**		Late Engs.
6	Piston Kit w/Pin & Retainers	**FP-AR44506WP**		Early Engs.
6	Piston Kit w/Pin & Retainers	**FP-RE16548WP**		Late Engs.

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122 (cont.) *Scraper* 6531D Eng. *Wheel Tractor* 6531D Eng. *Loader Tractor* 6531D Eng. *Backhoe* 6531D Eng.

8.7L 531 OHV Diesel L6, 4.75" Bore

CYLINDER COMPONENTS (cont.)

QTY	PISTONS (cont.)	PART NO.	SIZE	DESCRIPTION
6	Piston Kit w/Ring Set	FP-AR44505		Early Engs.
6	Piston Kit w/Ring Set	FP-RE16549		Late Engs.
6	Pin	FP-R35053		
12	Piston Pin Retainer	FP-D2824R		
6	Pin Bushing	FP-R36328		w/Con. Rod marked R35048, R40238, R53286, R58881, R66927
6	Pin Bushing	FP-R76783		w/Con. Rod marked R48315, R53287, R58883, R66926; w/1.875" pin dia.; w/1.8762" ID, 2.0622" OD, 1.625" O.A.L.
6	Pin Bushing	FP-3414Y20		w/1.875" OD; w/1.750" pin dia.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R66453		Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	FP-AR101271	*STD*	w/o oil hole & groove
6	Rod Pair	FP-AR104130	*.25MM*	w/o oil hole & groove
6	Rod Pair	FP-AR104131	*.50MM*	w/o oil hole & groove
6	Rod Pair	FP-AR104132	*.75MM*	w/o oil hole & groove
6	Rod Pair	FP-AR53020	*STD*	w/oil hole; w/partial groove
6	Rod Pair	FP-AR57208	*10*	w/oil hole; w/partial groove
6	Rod Pair	FP-AR57209	*20*	w/oil hole; w/partial groove
6	Rod Pair	FP-AR57210	*30*	w/oil hole; w/partial groove

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-AR41295	*STD*	1-5/32, 1-3/32, 1-1/4 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-531DEIFK		Early Engs.; w/Block marked R35130; w/Con. Rod marked R35048, R40238, R53286, R58881, R66927; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	FP-531DLIFK		Late Engs.; w/Block marked R40270, R42370, R45300, R47510; w/Con. Rod marked R35048, R40238, R53286, R58881, R66927; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-531DEOHK		Early Engs.; w/Block marked R35130; w/Con. Rod marked R35048, R40238, R53286, R58881, R66927; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-531DLOHK		Late Engs.; w/Block marked R40270, R42370, R45300, R47510; w/Con. Rod marked R35048, R40238, R53286, R58881, R66927; Incl. Torque-To-Yield con. rod bolts

123 *Harvester* 6531A, 6531T Engs. *Grader* 6531A, 6531T Engs. *Loader* 6531A, 6531T Engs. *Wheel Tractor* 6531A, 6531T Engs. *Compactor* 6531A, 6531T Engs.

8.7L 531 OHV Turbo-Diesel L6, 4.75" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R74365		
1	Head Gasket	FP-R78513		6531A Engs.
1	Head Set	FP-AR56154		6531A Engs.
1	Head Set	FP-AR67510		6531T Engs.

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R90602		
6	Exhaust	FP-R90601		
24	Keeper	FP-R35431		Exh. & Int.; Exc. 6531TT Engs.; Model 7520

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R48314	*STD*	
6	Int.	FP-R48313	*STD*	

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	FP-R53192		Exh. & Int.; .4375" ID, 3.1880" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
6	Spring	FP-R49569		Inner
6	Spring	FP-R49571		Outer; 2.5200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-R81086		Exh. & Int.
1	Oil Filler Cap Gasket	FP-T20328		6531A Engs.

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Harvester **6531A, 6531T Engs.** *Grader* **6531A, 6531T Engs.** *Loader* **6531A, 6531T Engs.** **123**
Wheel Tractor **6531A, 6531T Engs.** *Compactor* **6531A, 6531T Engs.** **(cont.)**
8.7L 531 OHV Turbo-Diesel L6, 4.75" Bore

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	Speed/Hour Meter Gasket	**FP-R44853**		6531A Engs.

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	**FP-R80970**		1 Hole
2	Exhaust Manifold Gasket	**FP-R80969**		6531A Engs.; 2 Holes
3	Intake Manifold Gasket	**FP-R40088**		6531A Engs.; Two Int. holes

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	**FP-R26115**		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	**FP-R35349**		6531A Engs.; Gear cover
1	Washer	**FP-R57851**		Inj. pump mounting
12	Washer	**FP-R48693**		6531A Engs.; Inj. leak-off screw; w/Bosch nozzle
12	Clamp	**FP-R34766**		6531A Engs.; Pump codes 1601, 1604
1	Washer Type Seal	**FP-R51936**		6531A Engs.; Leak-off & return line seals; Nozzle codes 1601, 1604

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
6	O-Ring	**FP-R51603**		Fuel nozzle; 6531A Engs.; w/Bosch injector
1	O-Ring	**FP-R375R**		Fuel check valve; 6531A Engs.; From Ser. No. 291,928

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Mounting Gasket	**FP-R49697**		6531A Engs.
1	O-Ring	**FP-R49424**		Inner coupling; 6531A Engs.
1	O-Ring	**FP-R49425**		Outer coupling; 6531A Engs.
1	Turbocharger Oil Supply Gskt.	**FP-R58222**		6531A Engs.

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Shaft	**FP-R82053**		6531T Engs.; w/Pump housing marked R65237
1	Water Pump Repair/Rebuild Kit	**FP-RE69840**		6531A Engs.; w/Pump housing marked R48818
1	Water Pump Repair/Rebuild Kit	**FP-RE69842**		6531A Engs.; w/Pump housing marked R65237
2	Water Pump Mounting Gasket	**FP-R49495**		6531A Engs.; w/Pump housing marked R48818
4	O-Ring	**FP-T13119**		Manifold bypass tubes
1	Shaft & Bearing Assembly	**FP-AU43144**		6531A Engs.; w/Pump housing marked R48818, R58705

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
3	Thermostat	**FP-AR48675**		6531A Engs.; w/Coolant manifold marked R48578; 180 Deg.

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	**FP-R88397**		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	**FP-R49483**		6531A Engs.; w/Timing gear cover marked R48835
1	Oil Pan Gasket	**FP-R71919**		
1	O-Ring	**FP-P48347**		Dipstick tube to block seal

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	**FP-PG531AS**		6531A Engs.
1	In-Frame Gasket Set	**FP-PG531TS**		6531T Engs.
1	Complete Overhaul Gasket Set	**FP-RE17046**		6531A Engs.
1	Complete Overhaul Gasket Set	**FP-RE17046WS**		6531A Engs.; Incl. crankshaft seals
1	Complete Overhaul Gasket Set	**FP-RE17050**		6531T Engs.
1	Complete Overhaul Gasket Set	**FP-RE17050WS**		6531T Engs.; Incl. crankshaft seals

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	**FP-4R46903**	*STD*	
4	Cam Brg.	**FP-R46903**	*STD*	

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket Set	**FP-500A**		6531A Engs.
2	Aftercooler Housing Gasket	**FP-R53081**		6531A Engs.
2	Oil Cooler Gasket	**FP-R49489**		6531A Engs.
1	Oil Cooler Top Gasket	**FP-R49491**		6531A Engs.; Oil cooler to regulator housing front
1	Oil Cooler Top Gasket	**FP-R49490**		6531A Engs.; Oil cooler to regulator housing rear

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123 (cont.) *Harvester* **6531A, 6531T Engs.** *Grader* **6531A, 6531T Engs.** *Loader* **6531A, 6531T Engs.** *Wheel Tractor* **6531A, 6531T Engs.** *Compactor* **6531A, 6531T Engs.**
8.7L 531 OHV Turbo-Diesel L6, 4.75" Bore

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-AR92533		
1	Oil Seal Kit	FP-SK13310		Incl. Seal & Wear sleeve

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-AR49025		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE13310		
1	Crankshaft Rear Housing Gskt.	FP-R35043		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK531	STD	
1	Main Set	FP-MBK53110	10	
1	Main Set	FP-MBK53120	20	
1	Main Set	FP-MBK53130	30	
1	Main Set	FP-MBK619	STD	w/partial groove lower brg.
1	Main Set	FP-MBK61910	10	w/partial groove lower brg.
1	Main Set	FP-MBK61920	20	w/partial groove lower brg.
1	Main Set	FP-MBK61930	30	w/partial groove lower brg.
6	Plain Main Brg.	FP-AR101266	STD	
6	Plain Main Brg.	FP-AR104568	.25MM	
6	Plain Main Brg.	FP-AR104569	.50MM	
6	Plain Main Brg.	FP-AR104570	.75MM	
6	Plain Main Brg.	FP-AR101268	STD	w/partial groove lower brg.
6	Plain Main Brg.	FP-AR104122	.25MM	w/partial groove lower brg.
6	Plain Main Brg.	FP-AR104123	.50MM	w/partial groove lower brg.
6	Plain Main Brg.	FP-AR104124	.75MM	w/partial groove lower brg.
1	Plain Main Brg.	FP-AR101269	STD	w/partial groove lower brg.; Use w/Thrust Washer Set
1	Plain Main Brg.	FP-AR104126	.25MM	w/partial groove lower brg.; Use w/Thrust Washer Set
1	Plain Main Brg.	FP-AR104127	.50MM	w/partial groove lower brg.; Use w/Thrust Washer Set
1	Plain Main Brg.	FP-AR104128	.75MM	w/partial groove lower brg.; Use w/Thrust Washer Set
6	Flanged Main Brg.	FP-AR101267	STD	
6	Flanged Main Brg.	FP-AR104564	.25MM	
6	Flanged Main Brg.	FP-AR104565	.50MM	
6	Flanged Main Brg.	FP-AR104566	.75MM	
1	Thrust Washer Set	FP-AR89622	STD	
1	Thrust Washer Set	FP-AR89971	7	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R495R		Ventilator tube; Rocker cover codes 1102, 1104; Smooth
1	Rect. or Square Seal	FP-R43660		Filter to housing; 6531A Engs.; w/housing marked R46424; To Ser. No. 357,083
1	Oil Press. Reg. Hsg. Gasket	FP-R49485		6531A Engs.; w/Housing marked R48349; w/one hole
1	Oil Press. Reg. Hsg. Gasket	FP-R49484		6531A Engs.; w/Housing marked R48349, R68157, R71485; w/two holes

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R48350		
6	Liner w/Sealing Rings	FP-R48350WS		
6	Cylinder Kit Complete	FP-CK32278350	STD	6531A Engs.; w/Block marked R48260, R72129, R80401; w/Con. Rod marked R48315, R53287, R58883, R66926
6	Cylinder Kit Complete	FP-CK63478350	STD	6531T Engs.; w/Block marked R48260, R72129, R80401; w/Con. Rod marked R48315, R53287, R58883, R66926
6	Sealing Ring, Liner	FP-R49423		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-AR53227		6531A Engs.
6	Piston Body w/o Pin	FP-AR66347		6531T Engs.
6	Piston Kit w/Pin & Retainers	FP-AR53227WP		6531A Engs.
6	Piston Kit w/Pin & Retainers	FP-AR66347WP		6531T Engs.
6	Piston Kit w/Ring Set	FP-AR53225		6531A Engs.
6	Piston Kit w/Ring Set	FP-AR67512		6531T Engs.
6	Pin	FP-R49418		
12	Piston Pin Retainer	FP-E1343FN		
6	Pin Bushing	FP-R76783		w/Con. Rod marked R48315, R53287, R58883, R66926; w/1.875" pin dia.; w/1.8762" ID, 2.0622" OD, 1.625" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R66453		w/Con. Rod marked R48315, R53287, R58883, R66926; Torque-To-Yield bolt; Replacement recommended

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Harvester **6531A, 6531T Engs.** *Grader* **6531A, 6531T Engs.** *Loader* **6531A, 6531T Engs.** *Wheel Tractor* **6531A, 6531T Engs.** *Compactor* **6531A, 6531T Engs.** **123 (cont.)**
8.7L 531 OHV Turbo-Diesel L6, 4.75" Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS. (cont.)	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-AR101271	STD	w/o oil hole & groove
6	Rod Pair	FP-AR104130	.25MM	w/o oil hole & groove
6	Rod Pair	FP-AR104131	.50MM	w/o oil hole & groove
6	Rod Pair	FP-AR104132	.75MM	w/o oil hole & groove
6	Rod Pair	FP-AR53020	STD	w/oil hole; w/partial groove
6	Rod Pair	FP-AR57208	10	w/oil hole; w/partial groove
6	Rod Pair	FP-AR57209	20	w/oil hole; w/partial groove
6	Rod Pair	FP-AR57210	30	w/oil hole; w/partial groove

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-AR53226	STD	6531A Engs.

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-531AIFK		6531A Engs.; w/Block marked R48260, R72129, R80401; w/Con. Rod marked R48315, R53287, R58883, R66926
1	In-Frame Overhaul Kit	FP-531TIFK		6531T Engs.; w/Block marked R48260, R72129, R80401; w/Con. Rod marked R48315, R53287, R58883, R66926; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-531AOHK		6531A Engs.; w/Block marked R48260, R72129, R80401; w/Con. Rod marked R48315, R53287, R58883, R66926
1	Complete Overhaul Kit	FP-531TOHK		6531T Engs.; w/Block marked R48260, R72129, R80401; w/Con. Rod marked R48315, R53287, R58883, R66926; Incl. Torque-To-Yield con. rod bolts

Harvester **6090H Eng.** *Power Unit* **6090H Eng.** *Wheel Tractor* **6090H Eng.** **124**
9.0L 549 (9000cc) OHV Turbo-Diesel L6 (PowerTech 4V IC), 118.4mm Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	FP-R520223	STD	1 groove; Chrome plated stem; 1.5748" Head Dia., .3142" Stem Dia., 6.4154" O.A.L.
12	Exhaust	FP-R520224	STD	1 groove; Inconel X-751; Chrome plated stem; 1.5748" Head Dia., .3142" Stem Dia., 6.4201" O.A.L.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
24	Exh. & Int.	FP-R527285 *	STD	

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
24	Guide	FP-R527286 *		

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
24	Spring	FP-R504235		

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	FP-R82007		

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Cam Brg.	FP-R527877 *	STD	

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE529319	STD	
1	Flanged Main Brg.	FP-RE529320	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump Intake Gasket	FP-R100569		

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R517073 *	STD	
6	Pin Bushing	FP-R74008		1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R501035		Fractured split rod

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124 (cont.) *Harvester* 6090H Eng. *Power Unit* 6090H Eng. *Wheel Tractor* 6090H Eng.
9.0L 549 (9000cc) OHV Turbo-Diesel L6 (PowerTech 4V IC), 118.4mm Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS. (cont.)	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-RE529318 *	STD	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE531077 *	STD	

125 *Harvester* 6090A Eng. *Power Unit* 6090A Eng. *Wheel Tractor* 6090A Eng.
9.0L 549 (9000cc) OHV Turbo-Diesel L6 (PowerTech 4V AC), 118.4mm Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	FP-R520223	STD	1 groove; Chrome plated stem; 1.5748" Head Dia., .3142" Stem Dia., 6.4154" O.A.L.
12	Exhaust	FP-R520224	STD	1 groove; Inconel X-751; Chrome plated stem; 1.5748" Head Dia., .3142" Stem Dia., 6.4201" O.A.L.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
24	Exh. & Int.	FP-R527285 *	STD	

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
24	Guide	FP-R527286 *		

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
24	Spring	FP-R504235		

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	FP-R82007		

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Cam Brg.	FP-R527877 *	STD	

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE529319	STD	
1	Flanged Main Brg.	FP-RE529320	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump Intake Gasket	FP-R100569		

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R517073 *	STD	
6	Pin Bushing	FP-R74008		1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R501035		Fractured split rod
6	Rod Pair	FP-RE529318 *	STD	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE531077 *	STD	

126 *Harvester* 6090T Eng. *Power Unit* 6090T Eng. *Wheel Tractor* 6090T Eng.
9.0L 549 (9000cc) OHV Turbo-Diesel L6 (PowerTech 4V), 118.4mm Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	FP-R520223	STD	1 groove; Chrome plated stem; 1.5748" Head Dia., .3142" Stem Dia., 6.4154" O.A.L.
12	Exhaust	FP-R520224	STD	1 groove; Inconel X-751; Chrome plated stem; 1.5748" Head Dia., .3142" Stem Dia., 6.4201" O.A.L.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
24	Exh. & Int.	FP-R527285 *	STD	

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
24	Guide	FP-R527286 *		

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
24	Spring	FP-R504235		

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* New Item — Check For Availability

Harvester **6090T Eng.** *Power Unit* **6090T Eng.** *Wheel Tractor* **6090T Eng.** **126 (cont.)**
9.0L 549 (9000cc) OHV Turbo-Diesel L6 (PowerTech 4V), 118.4mm Bore

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	FP-R82007		

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Cam Brg.	FP-R527877 *	STD	

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE529319	STD	
1	Flanged Main Brg.	FP-RE529320	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump Intake Gasket	FP-R100569		

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R517073 *	STD	
6	Pin Bushing	FP-R74008		1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R501035		Fractured split rod
6	Rod Pair	FP-RE529318 *	STD	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE531077 *	STD	

Combine **6619A, 6619T Engs.** *Harvester* **6619A, 6619T Engs.** *Scraper* **6619A, 6619T Engs.** *Wheel Tractor* **6619A, 6619T Engs.** *Windrower* **6619A, 6619T Engs.** *Crawler Tractor* **6619A, 6619T Engs.** *Excavator* **6619A, 6619T Engs.** *Dozer* **6619A, 6619T Engs.** *Forage Harvester* **6619A, 6619T Engs.** **127**
10.1L 619 OHV Turbo-Diesel L6, 5.125" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R74365		6619A Engs.; Rocker arm cover codes 1102, 1104; To Ser. No. 50,465
1	Head Gasket	FP-RE34009		
1	Head Set	FP-RE37417		
1	Ventilator Housing Gasket	FP-R49492		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R75690		Chrome plated stem; 2.0310" Head Dia., .4341" Stem Dia., 6.6620" O.A.L.
6	Exhaust	FP-R63982		1.8750" Head Dia., .4341" Stem Dia., 6.6550" O.A.L.
12	Valve Stem Cap	FP-R40366		Exh. & Int.; From Ser. No. 21,562
24	Keeper	FP-R35431		Exh. & Int.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R60537	STD	
6	Int.	FP-R59894	STD	

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	FP-R53192		.4375" ID, 3.1880" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
6	Spring	FP-R49569		Inner
6	Spring	FP-R49571		Outer; 2.5200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-R81086		Exh. & Int.
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover code 1104; Oil filler neck code 1201

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; 6619A Engs.; Delco-Remy No. 1105510; 24 Volt, 40 amp alternator
1	Ball Brg.	FP-JD9449		Front; 6619A Engs.; Delco-Remy Nos. 1101268, 1101345, 1102932, 1103128, 1105174; Code 3103; 12 Volt, 72 amp alternator

(continued on next page)

127 (cont.) *Combine* **6619A, 6619T Engs.** *Harvester* **6619A, 6619T Engs.** *Scraper* **6619A, 6619T Engs.** *Wheel Tractor* **6619A, 6619T Engs.** *Windrower* **6619A, 6619T Engs.** *Crawler Tractor* **6619A, 6619T Engs.** *Excavator* **6619A, 6619T Engs.** *Dozer* **6619A, 6619T Engs.** *Forage Harvester* **6619A, 6619T Engs.**
10.1L 619 OHV Turbo-Diesel L6, 5.125" Bore

ELECTRICAL (cont.)

QTY	ALTERNATOR (cont.)	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; 6619A Engs.; Motorola No. 70D42076T02; Code 3101; 12 Volt, 65 amp alternator
1	Ball Brg.	FP-JD9449		Front; 6619A Engs.; Motorola Remanufactured; Code 3102; 12 Volt, 51 amp alternator; 55 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; 6619A Engs.; Motorola No. 70D42179T02; 24 Volt, 45 amp alternator; To Ser. No. 59,456

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	Speed/Hour Meter Gasket	FP-R62410		6619A Engs.; Tach. drive codes 3300, 3303; From Ser. No. 46,656
1	Speed/Hour Meter Gasket	FP-R44853		6619A Engs.; Tach. drive codes 3300, 3303; To Ser. No. 46,655
1	Speed/Hour Meter Gasket	FP-R62410		6619T Engs.; Cover plate gskt.

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	FP-R80970		6619A Engs.; Exh. manifold codes 2802, 2803, 6401, 6403; To Ser. No. 60,152; 1 Hole
2	Exhaust Manifold Gasket	FP-R80969		6619A Engs.; 2 Holes
2	Exhaust Manifold Gasket	FP-R80970		6619T Engs.; To Ser. No. 60,152; 1 Hole
2	Exhaust Manifold Gasket	FP-R80969		6619T Engs.; To Ser. No. 60,152; 2 Holes
3	Intake Manifold Gasket	FP-R40088		Two Int. holes

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	FP-R26115		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R35349		6619A Engs.; Gear cover
1	Injector Pump Gasket	FP-R35349		6619T Engs.; Gear cover; w/Cover marked R55506
12	Washer	FP-R48693		Inj. leak-off screw
6	Washer	FP-R64840		6619A Engs.; Injector nozzle; Nozzle codes 1601, 1606, 1608, 1610; From Ser. No. 50,465; Steel
6	Washer	FP-R64840		6619A Engs.; Injector nozzle; Nozzle codes 1601, 1606, 1637; To Ser. No. 27,969; Steel
6	Washer	FP-R64840		6619A Engs.; Injector nozzle; Nozzle codes 1606, 1608; From Ser. No. 27,970 to Ser. No. 50,464; Steel
6	Washer	FP-R64840		6619T Engs.; Steel
6	Fuel Injector Nut	FP-R79604		Injection pump; Line codes 1601, 1608, 1610, 1637
19	Clamp	FP-R34766		6619A Engs.; Pump codes 1601, 1606; To Ser. No. 27,969
6	Fuel Line Connector Gasket	FP-R59294		6619A Engs.; Leak-off connector washer; w/Connector R59293, R77850, R83558; Alum.
12	Washer Type Seal	FP-R51936		6619A Engs.; Leak-off & return line seals; Pump codes 1601, 1606, 1608, 1610, 1637
12	Washer Type Seal	FP-R51936		6619T Engs.; Leak-off & return line seals

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
6	O-Ring	FP-R51603		Fuel nozzle; w/Bosch injector
1	O-Ring	FP-R375R		Fuel check valve seal

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R75691		6619A Engs.; w/Turbo oil line codes 6501, 6502
1	Turbocharger Oil Drain Gasket	FP-R75691		6619T Engs.; w/Turbo oil line code 6503
1	Turbocharger Mounting Gasket	FP-R49697		
1	O-Ring	FP-R57517		6619A Engs.; Manifold to turbo coupling seal; Int. manifold codes 2802, 2803
1	O-Ring	FP-R57517		6619T Engs.; Manifold to turbo coupling seal
1	O-Ring	FP-R49424		Outer coupling; Manifold codes 2802, 2803
1	Turbocharger Oil Supply Gskt.	FP-R58222		6619A Engs.; Turbo codes 6501, 6502
1	Turbocharger Oil Supply Gskt.	FP-R58222		6619T Engs.; Turbo code 6503

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Shaft	FP-R82053		6619A Engs.; w/Pump housing marked R65237
1	Water Pump Shaft	FP-R82051		6619A Engs.; w/Pump housing marked R67350, R74445, R86780, R98303, R104709

(continued on next page)

Combine **6619A, 6619T Engs.** *Harvester* **6619A, 6619T Engs.** *Scraper* **6619A, 6619T Engs.** *Wheel Tractor* **6619A, 6619T Engs.** *Windrower* **6619A, 6619T Engs.** *Crawler Tractor* **6619A, 6619T Engs.** *Excavator* **6619A, 6619T Engs.** *Dozer* **6619A, 6619T Engs.** *Forage Harvester* **6619A, 6619T Engs.**

10.1L 619 OHV Turbo-Diesel L6, 5.125" Bore

COOLING SYSTEM (cont.)

QTY	WATER PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Water Pump Shaft	FP-R82052		6619T Engs.; w/Pump housing marked R66661
1	Water Pump Impeller	FP-R135265		6619A Engs.; w/Pump housing marked R124057
1	Water Pump Impeller	FP-R82050		6619A Engs.; w/Pump housing marked R74445, R86780, R104709
1	Water Pump Impeller	FP-R84180		6619A Engs.; Pump code 2025; w/Pump housing marked R23992
1	Water Pump Repair/Rebuild Kit	FP-RE69842		w/Pump housing marked R65237
1	Water Pump Repair/Rebuild Kit	FP-RE69841		w/Pump housing marked R66661
1	Water Pump Repair/Rebuild Kit	FP-RE69845		w/Pump housing marked R67350
1	Water Pump Repair/Rebuild Kit	FP-RE68319		Pump code 2025; w/Pump housing marked R74445, R86780, R104709
1	Water Pump Repair/Rebuild Kit	FP-RE69840		6619A Engs.; w/Pump housing marked R48818, R58705, R124257; From Ser. No. 35,958
1	Water Pump Repair/Rebuild Kit	FP-RE69927		6619A Engs.; w/Pump housing marked R74445, R86780, R104709
1	Water Pump Housing Gasket	FP-R99785		6619A Engs.; w/H/D water pump; w/Pump housing marked R74445, R86780, R104709
1	Water Pump Housing Gasket	FP-R69415		6619A Engs.; w/Pump housing marked R58705
1	Water Pump Housing Gasket	FP-R66093		6619T Engs.; w/Pump marked R66661
1	Oil Seal Kit	FP-RE68318		6619A Engs.; w/Pump housing marked R74445, R86760, R104709, R124057; From Ser. No. 39,358
1	Water Pump Mounting Gasket	FP-R49495		w/H/D water pump; w/Pump housing marked R74445, R86780, R104709
1	Water Pump Mounting Gasket	FP-R49495		w/Pump housing marked R58705, R124057
1	Oil Seal	FP-RE20768		6619A Engs.; Front pump bearing seal; w/Pump housing marked R74445, R86780, R104709
1	Oil Seal	FP-AR90860		6619A Engs.; Pump code 2003; w/H/D water pump
1	Oil Seal	FP-RE20767		6619A Engs.; Rear pump bearing seal; w/Pump housing marked R74445, R86780, R104709
1	O-Ring	FP-R72328		6619A Engs.; Turbo line codes 6501, 6502, 6503
1	O-Ring	FP-R72328		6619T Engs.; Turbo line code 6503
1	Shaft & Bearing Assembly	FP-AU43144		6619A Engs.; w/Pump housing marked R124057

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
3	Thermostat	FP-AR72852		6619A Engs.; Thermostat code 2204; Thermostat housing code 3903; Housing marked R57513; 192 Deg.
3	Thermostat	FP-AR48675		6619A Engs.; Thermostat housing code 3903; Housing marked R57513; 180 Deg.
3	Thermostat	FP-AR48675		6619T Engs.; 180 Deg.
3	Thermostat	FP-AR72852		6619T Engs.; 192 Deg.
1	Thermostat Gasket	FP-R81274		w/3 thermostats

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	FP-R88397		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	FP-R49483		w/Timing gear cover marked R77301
1	Front Cover Gasket	FP-R49483		6619A Engs.; w/Timing gear cover marked R48835, R67342, R110147
1	Oil Pan Gasket	FP-R71919		6619A Engs.
1	Oil Pan Gasket Set	FP-PG501PS		w/Crankshaft driven oil pump; w/Cast iron oil pan.; From Ser. No. 020,331
1	Oil Pan Gasket Set	FP-PG500PS		w/Crankshaft driven oil pump; w/Cast Iron oil pan; Thin gskt.

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG619S		
1	Complete Overhaul Gasket Set	FP-RE37416		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE37416WS		6619A Engs.; Crankshaft seals incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-4R46903	*STD*	
4	Cam Brg.	FP-R46903	*STD*	

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket Set	FP-500A		6619A Engs.
2	Aftercooler Housing Gasket	FP-R53081		6619A Engs.
1	O-Ring	FP-R47153		Cooler tube
2	O-Ring	FP-R47153		Water manifold; 6619A Engs.; Water manifold codes 2802, 2803

(continued on next page)

127 (cont.) *Combine* 6619A, 6619T Engs. *Harvester* 6619A, 6619T Engs. *Scraper* 6619A, 6619T Engs. *Wheel Tractor* 6619A, 6619T Engs. *Windrower* 6619A, 6619T Engs. *Crawler Tractor* 6619A, 6619T Engs. *Excavator* 6619A, 6619T Engs. *Dozer* 6619A, 6619T Engs. *Forage Harvester* 6619A, 6619T Engs.

10.1L 619 OHV Turbo-Diesel L6, 5.125" Bore

ENGINE BLOCK & PARTS (cont.)

QTY	OIL COOLERS & FILTERS (cont.)	PART NO.	SIZE	DESCRIPTION
2	Oil Cooler Housing Gasket	FP-R57504		
1	Oil Cooler Top Gasket	FP-R49491		Oil cooler to regulator housing front
1	Oil Cooler Top Gasket	FP-R49490		Oil cooler to regulator housing rear

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-AR92533		6619A Engs.; From Ser. No. 33,814; Crankshaft marked R63476, AR78403
1	Oil Seal Kit	FP-SK13310		Incl. Seal & Wear sleeve

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-AR49025		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE13310		
1	Crankshaft Rear Housing Gskt.	FP-R35043		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK531	STD	
1	Main Set	FP-MBK53110	10	
1	Main Set	FP-MBK53120	20	
1	Main Set	FP-MBK53130	30	
1	Main Set	FP-MBK619	STD	w/partial groove lower brg.
1	Main Set	FP-MBK61910	10	w/partial groove lower brg.
1	Main Set	FP-MBK61920	20	w/partial groove lower brg.
1	Main Set	FP-MBK61930	30	w/partial groove lower brg.
6	Plain Main Brg.	FP-AR101266	STD	
6	Plain Main Brg.	FP-AR104568	.25MM	
6	Plain Main Brg.	FP-AR104569	.50MM	
6	Plain Main Brg.	FP-AR104570	.75MM	
6	Plain Main Brg.	FP-AR101268	STD	w/partial groove lower brg.
6	Plain Main Brg.	FP-AR104122	.25MM	w/partial groove lower brg.
6	Plain Main Brg.	FP-AR104123	.50MM	w/partial groove lower brg.
6	Plain Main Brg.	FP-AR104124	.75MM	w/partial groove lower brg.
1	Plain Main Brg.	FP-AR101269	STD	w/partial groove lower brg.; Use w/Thrust Washer Set
1	Plain Main Brg.	FP-AR104126	.25MM	w/partial groove lower brg.; Use w/Thrust Washer Set
1	Plain Main Brg.	FP-AR104127	.50MM	w/partial groove lower brg.; Use w/Thrust Washer Set
1	Plain Main Brg.	FP-AR104128	.75MM	w/partial groove lower brg.; Use w/Thrust Washer Set
6	Flanged Main Brg.	FP-AR101267	STD	
6	Flanged Main Brg.	FP-AR104564	.25MM	
6	Flanged Main Brg.	FP-AR104565	.50MM	
6	Flanged Main Brg.	FP-AR104566	.75MM	
1	Thrust Washer Set	FP-AR89622	STD	
1	Thrust Washer Set	FP-AR89971	7	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-R71732		6619A Engs.; Pump outlet tube; Pump code 1901; w/Pump marked R69946; w/Cast iron oil pan; From Ser. No. 46,656 to Ser. No. 61,565
2	O-Ring	FP-R71732		6619A, 6619T Engs.; Pump outlet tube; w/Pump marked R69946; To Ser. No. 46,655
1	O-Ring	FP-R495R		Ventilator tube; 6619A Engs.; Smooth
1	Oil Pump Intake Gasket	FP-R100569		w/Oil pump housing marked R62946; Oil pump pickup codes 1901, 1906
1	Oil Pump Intake Gasket	FP-R74464		6619T Engs.; Pick-up screen; w/Alum. oil pan
1	Rect. or Square Seal	FP-R43660		Filter to housing; w/housing marked R48349, R68157, R71485
1	Oil Pump to Block Gasket	FP-R69418		
1	Oil Pump Intake Elbow Gasket	FP-R71312		6619T Engs.; w/Alum. oil pan; Oil pan code 1916
1	Oil Press. Reg. Hsg. Gasket	FP-R49485		w/Housing marked R48349, R68157, R71485; w/one hole
1	Oil Filter Body Gasket	FP-R82943		Timing gear cover code 1299; Filter code 1201
1	Pick-Up Tube Gasket	FP-R70475		Oil pump code 1901; w/Cast iron oil pan; To Ser. No. 20,330

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R77640		From Ser. No. 49,060
6	Liner w/o Sealing Ring	FP-R65629		To Ser. No. 49,059
6	Liner w/Sealing Rings	FP-R77640WS		From Ser. No. 49,060

(continued on next page)

Combine **6619A, 6619T Engs.** *Harvester* **6619A, 6619T Engs.** *Scraper* **6619A, 6619T Engs.** *Wheel Tractor* **6619A, 6619T Engs.** *Windrower* **6619A, 6619T Engs.** *Crawler Tractor* **6619A, 6619T Engs.** *Excavator* **6619A, 6619T Engs.** *Dozer* **6619A, 6619T Engs.** *Forage Harvester* **6619A, 6619T Engs.**

10.1L 619 OHV Turbo-Diesel L6, 5.125" Bore

CYLINDER COMPONENTS (cont.)

QTY	LINERS (cont.)	PART NO.	SIZE	DESCRIPTION
6	Liner w/Sealing Rings	**FP-R65629WS**		To Ser. No. 49,059
6	Cylinder Kit Complete	**FP-AR84089**		w/Block marked R57424, R63199, R65628, R69312, R72130, R74123; w/Con. Rod marked R57484, R66925; To Ser. No. 33,814
6	Cylinder Kit Complete	**FP-RE20291**	*STD*	w/Block marked R57424, R63199, R65628, R69312, R72130, R74123; w/Con. Rod marked R63959; From Ser. No. 33,815 to Ser. No. 49,059
6	Cylinder Kit Complete	**FP-RE40476**		w/Block marked R75934, R87752, R88217; w/Con. Rod marked R63959; From Ser. No. 49,060
6	Cyl. Liner Sealing Ring Kit	**FP-AR72351**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-RE42231**		From Ser. No. 33,815
6	Piston Body w/o Pin	**FP-AR69038**		To Ser. No. 33,814
6	Piston Kit w/Pin & Retainers	**FP-RE42231WP**		From Ser. No. 33,815
6	Piston Kit w/Pin & Retainers	**FP-AR69038WP**		To Ser. No. 33,814
6	Pin	**FP-R64451**		
12	Piston Pin Retainer	**FP-N51168**		
6	Pin Bushing	**FP-3819Y20**		w/Con. Rod marked R63959; w/1.999" ID, w/2.187" OD, 2.0512 O.A.L.
6	Pin Bushing	**FP-R69045**		w/Con. Rod marked R63959; w/1.999" ID, w/2.187" OD, 2.0512" O.A.L.
6	Pin Bushing	**FP-R60197**		To Ser. No. 33,814; w/Con. Rod marked R57484, R66925; w/1.9987" ID, 2.1872" OD, 2.029" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R66453**		w/Con. Rod marked R57484, R66925; To Ser. No. 33,814; Torque-To-Yield bolt; Replacement recommended
12	Con. Rod Bolt	**FP-R66453**		w/Con. Rod marked R63959; From Ser. No. 33,815; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	**FP-AR101271**	*STD*	w/o oil hole & groove
6	Rod Pair	**FP-AR104130**	*.25MM*	w/o oil hole & groove
6	Rod Pair	**FP-AR104131**	*.50MM*	w/o oil hole & groove
6	Rod Pair	**FP-AR104132**	*.75MM*	w/o oil hole & groove
6	Rod Pair	**FP-AR53020**	*STD*	w/oil hole; w/partial groove
6	Rod Pair	**FP-AR57208**	*10*	w/oil hole; w/partial groove
6	Rod Pair	**FP-AR57209**	*20*	w/oil hole; w/partial groove
6	Rod Pair	**FP-AR57210**	*30*	w/oil hole; w/partial groove

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-AR82355**	*STD*	

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-619EIFK**		w/Block marked R57424, R63199, R65628, R69312, R72130, R74123; w/Con. Rod marked R57484, R66925; To Ser. No. 33,814; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-619MIFK**		w/Block marked R57424, R63199, R65628, R69312, R72130, R74123; w/Con. Rod marked R63959; From Ser. No. 33,815 to Ser. No. 49,059; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-619LIFK**		w/Block marked R75934, R87752, R88217; w/Con. Rod marked R63959; From Ser. No. 49,060; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-619EOHK**		w/Block marked R57424, R63199, R65628, R69312, R72130, R74123; w/Con. Rod marked R57484, R66925; To Ser. No. 33,814; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-619MOHK**		w/Block marked R57424, R63199, R65628, R69312, R72130, R74123; w/Con. Rod marked R63959; From Ser. No. 33,815 to Ser. No. 49,059; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-619LOHK**		w/Block marked R75934, R87752, R88217; w/Con. Rod marked R63959; From Ser. No. 49,060; Incl. Torque-To-Yield con. rod bolts

128 *Wheel Tractor* 6105A, 6105T Engs. *Crawler Tractor* 6105A, 6105T Engs.
10.5L 639.5 (10483cc) OHV Turbo-Diesel L6 (PowerTech), 127mm Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
48	Keeper	FP-R91889		6105A Engs.

FUEL SYSTEM & PARTS

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		6105A Engs.; w/Turbo oil line codes 6501, 6502, 6503, 6504, 6505, 6506
1	Turbocharger Mounting Gasket	FP-R49697		6105A Engs.

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
2	Ball Brg.	FP-JD10329		6105A Engs.; Fan hub shaft bearing; Code 2303
1	Ball Brg.	FP-JD10362		Front; 6105A Engs.; Water Pump bearing; Code 2001
1	Ball Brg.	FP-JD10363		Rear; 6105A Engs.; Water Pump bearing; Code 2001
1	Oil Seal	FP-RE39134		6105A Engs.; Water pump code 2001
1	Oil Seal	FP-RE39134		6105A Engs.; Rear water pump seal; Water pump code 2001

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-RE33705		Upper; 6105A Engs.; 180 Deg.

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE20768		6105A Engs.; Fan hub shaft seal; w/Pump housing marked R129075

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Housing Gskt.	FP-R35043		6105A Engs.

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR72351		Piston, Con. Rod, Cyl. liner codes 6105, 6125; w/Liner marked RE66125

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R64451		Piston, Con. Rod, Cyl. liner codes 6105, 6125
12	Piston Pin Retainer	FP-N51168		Piston, Con. Rod, Cyl. liner codes 6105, 6125
6	Pin Bushing	FP-R69045		w/1.999" ID, w/2.187" OD, 2.0512" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R66453		Piston, Con. Rod, Cyl. liner codes 6105, 6125; w/Rod marked R121174; Torque-To-Yield bolt; Replacement recommended

129 *Wheel Tractor* 6125T Eng. *Crawler Tractor* 6125T Eng.
12.5L 764.6 (12534cc) OHV Turbo-Diesel L6 (PowerTech), 127mm Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
48	Keeper	FP-R91889		

CAMSHAFT GROUP

QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Idler Sprocket/Gear Bushing	FP-R533789		

FUEL SYSTEM & PARTS

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		w/Turbo oil line codes 6501, 6502, 6503, 6504, 6505, 6506
1	Turbocharger Mounting Gasket	FP-R49697		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
2	Ball Brg.	FP-JD10329		Fan hub shaft bearing code 2303
1	Ball Brg.	FP-JD10362		Front; Water Pump bearing code 2001
1	Ball Brg.	FP-JD10363		Rear; Water Pump bearing code 2001
1	Oil Seal	FP-RE39134		Rear water pump seal; Water pump code 2001

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-RE33705		Upper; 180 Deg.

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE20768		Fan hub shaft seal; w/Pump housing marked R104709, R124059

(continued on next page)

Wheel Tractor **6125T Eng.** *Crawler Tractor* **6125T Eng.** **129 (cont.)**
12.5L 764.6 (12534cc) OHV Turbo-Diesel L6 (PowerTech), 127mm Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Housing Gskt.	FP-R35043		

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR72351		Piston, Con. Rod, Cyl. liner code 4801

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R64451		Piston, Con. Rod, Cyl. liner code 4801
12	Piston Pin Retainer	FP-N51168		Piston, Con. Rod, Cyl. liner code 4801
6	Pin Bushing	FP-R69045		w/Con. Rod marked R121174; w/1.999" ID, w/2.187" OD, 2.0512" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R66453		Piston, Con. Rod, Cyl. liner code 4801; Rod marked R121174; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	FP-RE530787 *	STD	

Harvester **6950 Eng.** *Forage Harvester* **6950 Eng.** **130**
14.0L 855 OHV Turbo-Diesel L6, 5.5" Bore (Cummins Eng.)

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
3	Valve Cover Gasket	FP-3066311		

QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
36	Head Bolt	FP-3071161		11/16-16 X 7 1/4"
1	Washer	FP-66292		Use w/FP-210884 pipe plug; 7/8" ID

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
6	Dowel Pin	FP-68445		
10	Pipe Plug	FP-S911B		1/8" N.P.T.
12	Bolt	FP-70772		1/4" - 20 X 1/2" Fillister machine screw

QTY	FREEZE PLUGS	PART NO.	SIZE	DESCRIPTION
10	Pipe Plug	FP-S911B		1/8" N.P.T.

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	FP-3084045		
12	Exhaust	FP-3069672		
12	Exhaust Valve Kit	FP-3803726		
12	Intake Valve Kit	FP-3803854		
24	Keeper	FP-3072369		Exh. & Int.

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	FP-3064312		Int.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
24	Spring	FP-3070460		Exh. & Int.

QTY	PUSH RODS	PART NO.	SIZE	DESCRIPTION
12	Push Rod	FP-3066291		
6	Push Rod	FP-3073499		Injector push rod

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Bushing	FP-3058462		Exh. & Int.; Rocker arm bushing
1	Oil Filler Cap	FP-107981		

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
24	Valve Stem Seal	FP-3064281		Exh. & Int.

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
3	Rocker Shaft	FP-3074375		L.H. shaft
3	Rocker Shaft	FP-3074376		R.H. shaft
3	Expansion Plug	FP-3007634		Cyl. head; .755" Dia.
6	Expansion Plug	FP-3007635		Cyl. head; 1.00" Dia.
2	Expansion Plug	FP-3007636		Cyl. head; 1.255" Dia.
6	Expansion Plug	FP-203933		Plug, rocker shaft
5	O-Ring	FP-3050667		Rocker lever housing
12	Cam Follower Roller	FP-3865237		Exh. & Int.
6	Injector Cam Roller	FP-3161423		
12	Valve Roller Pin	FP-3166428		Cam follower
18	Dowel Pin	FP-3064309		
12	Lock Screw	FP-69736		Cam follower housing

(continued on next page)

130 *Harvester* 6950 Eng. *Forage Harvester* 6950 Eng.
(cont.) 14.0L 855 OHV Turbo-Diesel L6, 5.5" Bore (Cummins Eng.)

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Exhaust Manifold Gasket	FP-3020943		
3	Intake Manifold Gasket	FP-3008591		
2	Pipe Plug	FP-3025458		Int. manifold

QTY	AIR INTAKE	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-3037537		Int. manifold; 9/16" Dia. ID

CAMSHAFT GROUP

QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Idler Shaft	FP-3066328		

QTY	CAMSHAFT TIMING	PART NO.	SIZE	DESCRIPTION
1	Woodruff Key	FP-3021601		Cam gear; 3/4"

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Thrust Washer	FP-215233		Big Cam
1	Camshaft Thrust Washer	FP-215233		N14 Engs.
1	Camshaft Thrust Washer	FP-92351		Small Cam

ACCESSORY DRIVE

QTY	ACCESSORY DRIVE	PART NO.	SIZE	DESCRIPTION
1	Lock Nut	FP-3012526		Accessory drive pulley; 7/8 - 14 UNF

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Bolt	FP-3000173		Retains fuel pump coupling spider; 3/8" - 16 X 1" length
2	Washer	FP-S631		Fuel line tube brace; .250" ID
1	Washer	FP-170664		Use in fuel pump coupling spider; 3/8" ID
2	Fitting	FP-181213		Fuel line fitting; 90 Deg.
6	Fuel Injector Roller Pin	FP-3166388		Injector cam follower
2	Fuel Crossover Connection	FP-147100		

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Fuel Pump Filter	FP-146483		
2	Bolt	FP-S2286		Fuel pump nameplate
6	O-Ring	FP-3070137		Injector second seal; OEM Color code Brown
6	O-Ring	FP-3007759		Injector sleeve seal
6	O-Ring	FP-3070138		Injector third seal; OEM Color code Black w/White dot
6	O-Ring	FP-3070136		Injector top seal; OEM Color code Black
1	O-Ring	FP-213079		Filter housing to fuel pump head; Large; 0.941" OD, 0.810" ID
1	O-Ring	FP-151900		Filter housing to fuel pump head; Small; 0.621" OD, 0.494" ID
1	O-Ring	FP-3037537		Fuel pump coupling nipple seal; 9/16" Dia. ID
1	O-Ring	FP-139988		Fuel pump damper cover seal; Large; 1.752" OD, 1.489" ID
1	O-Ring	FP-100099		Fuel pump damper cover seal; Small; 1.627" OD, 1.364" ID
1	O-Ring	FP-129888		Fuel pump disc valve seal
1	Fuel Pump Gasket	FP-110855		Fuel pump cover to housing
1	Dowel Pin	FP-3034438		Accessory drive shaft
1	Fuel Pump Spider Jaw Coupling	FP-3046200		
1	Fuel Pump Check Valve	FP-3033740		
1	Fuel Pump Drive Coupling Hub	FP-3000175		Jaw coupling

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbo Ring	FP-3751948		
1	Turbo Ring	FP-3521442		Turbo impeller
2	Turbo Ring	FP-3521441		Turbo shaft
4	Snap Ring	FP-3709510		Turbo shaft
4	Nut	FP-3056158		3/8 - 24 UNF Hex. flange
1	Turbocharger Oil Drain Gasket	FP-3202117		
1	Turbocharger Mounting Gasket	FP-3069177		
1	O-Ring	FP-3084848		For air crossover tube
2	O-Ring	FP-3037537		For flex hose elbow FP-3037535; 9/16" Dia. ID
1	O-Ring	FP-3037537		For turbo bearing housing; 9/16" Dia. ID

GOVERNOR

QTY	GOVERNOR	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-3046201		ECM position sensor seal; O-Ring for 3/4" plug
3	O-Ring	FP-3037537		ECM pressure and temperature sensor seals; 9/16" Dia. ID

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	FP-3803605		
1	Water Pump Shaft	FP-3064392		

(continued on next page)

Harvester **6950 Eng.** *Forage Harvester* **6950 Eng.** **130**
14.0L 855 OHV Turbo-Diesel L6, 5.5" Bore (Cummins Eng.) **(cont.)**

COOLING SYSTEM (cont.)

QTY	WATER PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-3064386		
1	Water Pump Repair/Rebuild Kit	FP-3801712WO		w/o Brg. & seal
1	Water Pump Repair/Rebuild Kit	FP-3801712		w/Brg. & seal
2	Water Pump Retainer Ring	FP-S16255		Water pump brg. and idler shaft
3	Ball Brg.	FP-3064406		Water pump brg. (2) and idler shaft (1)
1	Water Pump Gasket	FP-3002385		
1	Water Pump Gasket	FP-3076522		Pump housing to block
2	Oil Seal	FP-3074482		For rear pump brg. & rear idler shaft
1	Oil Seal	FP-3038998		Water pump bearing seal
1	O-Ring	FP-145551		Idler pulley cover seal
1	Pipe Plug	FP-S911B		Aftercooler flexible hose fitting; 1/8" N.P.T.
1	Pipe Plug	FP-3013786		Thermostat housing cover; 3/8" N.P.T.
2	Pipe Plug	FP-3013786		Use to block water supply when air comp. is not in use; 3/8" N.P.T.
3	Pipe Plug	FP-S911B		Water pump pipe plugs; 1/8" N.P.T.
1	Fan Hub Spacer Gasket	FP-3005592		
1	Dowel Pin	FP-70550		Water pump dowel pin; .312 Dia. X .500 Inch Length
1	Water Pump Spacer	FP-196844		Pump shaft
1	V Belt	FP-217638		Ribbed; Multi-Groove
1	Water Pump Connection Gasket	FP-3024960		Water inlet gskt.

QTY	SEALS - FAN HUB	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-200307		Fan drive bearing

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat Gasket	FP-3064313		Thermostat housing
1	Thermostat Cover Gasket	FP-3066285		Thermostat cover
4	O-Ring	FP-109080		Aftercooler thermostat housing
3	O-Ring	FP-3037537		Thermostat housing; 9/16" Dia. ID
1	Rect. or Square Seal	FP-186780		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-3349820		0.79mm / 0.031" Thick; One piece gskt.
1	Washer	FP-67946		Oil drain plug seal; 1.03125" ID
3	O-Ring	FP-3046201		O-Ring for 3/4" plug
4	O-Ring	FP-3037537		9/16" Dia. ID

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-3007689S	*STD*	Big Cam 2.500" dia.; Engs. w/2.625" cam housing
1	Cam Set	FP-3801106	*STD*	Big Cam 2.500" dia.; Engs. w/2.687" cam housing

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket	FP-3069098		
1	Washer	FP-193136		Accessory drive pulley; 1.750" OD
1	Washer	FP-213082		Idler shaft; .625" OD
4	O-Ring	FP-68910		Aftercooler oil cooler tube
2	O-Ring	FP-3050667		Aftercooler water transfer fittings
1	O-Ring	FP-43463A		Aftercooler water transfer tubes
2	O-Ring	FP-109080		Oil cooler
1	O-Ring	FP-3046201		Oil cooler plug seal; O-Ring for 3/4" plug
4	O-Ring	FP-3037537		Oil cooler water plug seal; 9/16" Dia. ID
1	O-Ring	FP-3073966		Oil cooler water transfer seal
1	Gasket	FP-3072341		Oil cooler; Thermostat to oil cooler support
1	Gasket	FP-3070478		Oil filter head gskt.
1	Oil Cooler Support Gasket	FP-3070477		

QTY	FREEZE PLUGS	PART NO.	SIZE	DESCRIPTION
2	Expansion Plug	FP-205401		Use on cam follower shaft ends
1	Expansion Plug	FP-3011952		Rear; 2.625" OD
1	Pipe Plug	FP-S911B		Fan pulley; 1/8" N.P.T.
3	Pipe Plug	FP-3013786		3/8" N.P.T.

QTY	DIPSTICK	PART NO.	SIZE	DESCRIPTION
1	Dipstick	FP-216484		90" Long; Blank Universal

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
1	Pipe Plug	FP-S911B		Fan pulley; 1/8" N.P.T.
3	Pipe Plug	FP-3013786		3/8" N.P.T.

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-3064291		

(continued on next page)

130 *Harvester* 6950 Eng. *Forage Harvester* 6950 Eng.
(cont.) 14.0L 855 OHV Turbo-Diesel L6, 5.5" Bore (Cummins Eng.)

CRANKSHAFT/OIL PUMP (cont.)

QTY	CRANKSHAFT (cont.)	PART NO.	SIZE	DESCRIPTION
1	Vibration Damper	FP-217323		13.55" Dia.; Snub Nose

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-3006736		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-3006737		6.00" Shaft
1	Rear Cover Gasket	FP-3067616		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-3801260	STD	w/partial groove brgs.; Incl. thrust washer set; Incl. thrust washers
1	Main Set	FP-3801261	10	w/partial groove brgs.; Incl. thrust washer set; Incl. thrust washers
1	Main Set	FP-3801262	20	w/partial groove brgs.; Incl. thrust washer set; Incl. thrust washers
1	Main Set	FP-3801263	30	w/partial groove brgs.; Incl. thrust washer set; Incl. thrust washers
4	Thrust Washer	FP-3067568	STD	
6	Bolt	FP-204165		Vibration damper to crankshaft; 5/8" - 18 X 1 5/8"

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	Bushing	FP-69521		Drive gear shaft bushing
2	Bushing	FP-68365		Driven gear shaft bushing
1	Oil Pump Spring	FP-3010146		Press. regulator
1	O-Ring	FP-215705		Front timing cover, cam support thrust
2	O-Ring	FP-145504		Oil pump pressure regulator seals
1	O-Ring	FP-3029847		Oil suction tube seal
1	O-Ring	FP-3037537		Plug seal, front timing cover; 9/16" Dia. ID
1	Oil Pump Cover Gasket	FP-3014778		
1	Oil Pump Gasket	FP-3067613		Oil pump body to block
1	Rect. or Square Seal	FP-3034986		Oil suction tube seal
1	Gasket	FP-3067618		Front timing cover to block
1	Oil Drain Plug	FP-3055069		1" - 18 UNS
1	Oil Suction Tube Gasket	FP-157551		Oil pan

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-3055099	STD	Std. Liners
6	Liner w/Sealing Rings	FP-3801826	STD	Incl. (1) FP215090 crevice seal, (2) FP3032874 (Blk., middle & lower) sealing rings. Std. size, Lower Press Fit design. Replaces O.E. Nos. 3055099 & 3801826 w/seals.
6	Cylinder Kit Complete	FP-3803742	STD	
6	Cyl. Liner Sealing Ring Kit	FP-3800174		Incl. (1) FP-215090, (2) FP-3032874
6	Flange Shim	FP-3054948	20	Ring, liner seal; .020" Thick, fits Std. & 10/20 sleeves
6	Flange Shim	FP-3054948B	20	Ring, liner seal; .020" Thick, fits Std. & 10/20 sleeves; Carton of 50
6	Flange Shim	FP-30549486	20	Ring, liner seal; .020" Thick, fits Std. & 10/20 sleeves; Carton of 6
6	Flange Shim	FP-3019959	31	Ring, liner seal; .031" thick
6	Flange Shim	FP-3019960	62	Ring, liner seal; .062" thick

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Kit w/Pin & Retainers	FP-3803741	STD	
6	Pin	FP-3064304		
12	Piston Pin Retainer	FP-3064305		
6	Piston Cooling Nozzle	FP-4058947		
6	Pin Bushing	FP-3064295		
6	O-Ring	FP-4058941		Piston cooling nozzle

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-3349806		
6	Rod Pair	FP-3055145PR	STD	From 1991
6	Rod Pair	FP-3055146PR	10	From 1991
12	Rod Bearing Half Upper/Lower	FP-3055145	STD	
12	Rod Bearing Half Upper/Lower	FP-3055146	10	
12	Rod Bearing Half Upper/Lower	FP-3055147	20	
12	Rod Bearing Half Upper/Lower	FP-3055148	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-4089489	STD	
6	Compression Ring	FP-4058967		Top ring
6	Compression Ring	FP-4058968		2nd ring
6	Oil Ring	FP-4058969		Compression ring

(continued on next page)

KITS

QTY	OVERHAUL KIT	*PART NO.*	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-IFKN14AR**		Select FP-3803742 Cyl. Kit

John Deere Industrial

Engine Finding Index

Engine	Line No.
.9L 53.9 L-HEAD L2 3.25" Bore (Wisconsin Eng.)	1
2.9L 179 OHV Diesel L3 4.1875" Bore (Standard)	2
2.9L 179 OHV Turbo-Diesel L3 4.1875" Bore (Standard)	3
2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (Litre Engine)	4
2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	5
2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (Litre Engine)	6
2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	7
3.9L 239 OHV Diesel L4 4.1875" Bore (Standard)	8
3.9L 239 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	9
3.9L 239 (3917cc) OHV Diesel L4 106mm Bore (Litre Engine)	10
3.9L 239 (3917cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	11
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	12
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 4V IC)	13
4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	14
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	15
4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	16
4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	17
6.8L 413.8 (6784cc) OHV Turbo-NG L6 106mm Bore (PowerTech 2V IC)	18
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	19
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	20
6.8L 413.8 (6784cc) OHV Diesel L6 106mm Bore (Litre Engine)	21
6.8L 413.8 (6784cc) OHV Diesel L6 106mm Bore (PowerTech 2V)	22
6.8L 413.8 (6784cc) OHV NG L6 106mm Bore (PowerTech 2V)	23
6.8L 413.8 (6784cc) OHV Turbo-NG L6 106mm Bore (PowerTech 2V)	24
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	25
6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	26
6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	27
7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	28
7.6L 465.9 (7638cc) OHV Diesel L6 115mm Bore (Litre Engine)	29
7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	30
8.1L 495.9 (8129cc) OHV Turbo-NG L6 116mm Bore (PowerTech 2V IC)	31
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	32
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	33
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (Litre Engine)	34
8.1L 495.9 (8129cc) OHV Turbo-NG L6 116mm Bore (PowerTech 2V)	35
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	36
9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V IC)	37
9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V AC)	38
9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V)	39
10.1L 616.7 (10109cc) OHV Diesel L6 130mm Bore (Litre Engine)	40
10.1L 616.7 (10109cc) OHV Turbo-Diesel L6 130mm Bore (Litre Engine)	41
10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	42
10.5L 639.5 (10483cc) OHV Turbo-Diesel L6 127mm Bore (PowerTech)	43
12.5L 764.6 (12534cc) OHV Turbo-Diesel L6 127mm Bore (PowerTech)	44

Engine Code Index

Engine Code	Engine Description	Line No.
TF ... Industrial Applications	.9L 53.9 L-HEAD L2 3.25" Bore (Wisconsin Eng.)	1
TFD ... Industrial Applications	.9L 53.9 L-HEAD L2 3.25" Bore (Wisconsin Eng.)	1
TH ... Industrial Applications	.9L 53.9 L-HEAD L2 3.25" Bore (Wisconsin Eng.)	1
THD ... Industrial Applications	.9L 53.9 L-HEAD L2 3.25" Bore (Wisconsin Eng.)	1
TJD ... Industrial Applications	.9L 53.9 L-HEAD L2 3.25" Bore (Wisconsin Eng.)	1
3029D ... Industrial Applications	2.9L 179 OHV Diesel L3 4.1875" Bore (Standard)	2
3029D ... Industrial Applications	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (Litre Engine)	4
3029D ... Industrial Applications	2.9L 179.2 (2938cc) OHV Diesel L3 106mm Bore (PowerTech 2V)	5
3029T ... Industrial Applications	2.9L 179 OHV Turbo-Diesel L3 4.1875" Bore (Standard)	3
3029T ... Industrial Applications	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (Litre Engine)	6
3029T ... Industrial Applications	2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 106mm Bore (PowerTech 2V)	7
3179D ... Industrial Applications	2.9L 179 OHV Diesel L3 4.1875" Bore (Standard)	2

(continued on next page)

Engine Code Index

Engine Code	Engine Description	Line No.
3179T ... Industrial Applications	2.9L 179 OHV Turbo-Diesel L3 4.1875" Bore (Standard)	3
4039D ... Industrial Applications	3.9L 239 (3917cc) OHV Diesel L4 106mm Bore (Litre Engine)	10
4039T ... Industrial Applications	3.9L 239 (3917cc) OHV Turbo-Diesel L4 106mm Bore (Litre Engine)	11
4045D ... Industrial Applications	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	16
4045D ... Industrial Applications	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	14
4045H ... Industrial Applications	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	12
4045H ... Industrial Applications	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 4V IC)	13
4045T ... Industrial Applications	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	17
4045T ... Industrial Applications	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	15
4276D ... Industrial Applications	4.5L 276 OHV Diesel L4 4.1875" Bore (Standard)	16
4276T ... Industrial Applications	4.5L 276 OHV Turbo-Diesel L4 4.1875" Bore (Standard)	17
6068D ... Industrial Applications	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	26
6068D ... Industrial Applications	6.8L 413.8 (6784cc) OHV Diesel L6 106mm Bore (Litre Engine)	21
6068D ... Industrial Applications	6.8L 413.8 (6784cc) OHV Diesel L6 106mm Bore (PowerTech 2V)	22
6068H ... Industrial Applications	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	19
6068H ... Industrial Applications	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	20
6068HN ... Industrial Applications	6.8L 413.8 (6784cc) OHV Turbo-NG L6 106mm Bore (PowerTech 2V IC)	18
6068N ... Industrial Applications	6.8L 413.8 (6784cc) OHV NG L6 106mm Bore (PowerTech 2V)	23
6068T ... Industrial Applications	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	27
6068T ... Industrial Applications	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	25
6068TN ... Industrial Applications	6.8L 413.8 (6784cc) OHV Turbo-NG L6 106mm Bore (PowerTech 2V)	24
6076A ... Industrial Applications	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	28
6076D ... Industrial Applications	7.6L 465.9 (7638cc) OHV Diesel L6 115mm Bore (Litre Engine)	29
6076H ... Industrial Applications	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	30
6076T ... Industrial Applications	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	28
6081A ... Industrial Applications	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	33
6081H ... Industrial Applications	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	32
6081HN ... Industrial Applications	8.1L 495.9 (8129cc) OHV Turbo-NG L6 116mm Bore (PowerTech 2V IC)	31
6081T ... Industrial Applications	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (Litre Engine)	34
6081T ... Industrial Applications	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	36
6081TN ... Industrial Applications	8.1L 495.9 (8129cc) OHV Turbo-NG L6 116mm Bore (PowerTech 2V)	35
6090A ... Industrial Applications	9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V AC)	38
6090H ... Industrial Applications	9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V IC)	37
6090T ... Industrial Applications	9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V)	39
6101D ... Industrial Applications	10.1L 616.7 (10109cc) OHV Diesel L6 130mm Bore (Litre Engine)	40
6101T ... Industrial Applications	10.1L 616.7 (10109cc) OHV Turbo-Diesel L6 130mm Bore (Litre Engine)	41
6101T ... Industrial Applications	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	42
6105T ... Industrial Applications	10.5L 639.5 (10483cc) OHV Turbo-Diesel L6 127mm Bore (PowerTech)	43
6125T ... Industrial Applications	12.5L 764.6 (12534cc) OHV Turbo-Diesel L6 127mm Bore (PowerTech)	44
6414D ... Industrial Applications	6.8L 414 OHV Diesel L6 4.1875" Bore (Standard)	26
6414T ... Industrial Applications	6.8L 414 OHV Turbo-Diesel L6 4.1875" Bore (Standard)	27

(continued on next page)

Engine Code Index

Engine Code	Engine Description	Line No.
6466A ... Industrial Applications	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	28
6466T ... Industrial Applications	7.6L 466 OHV Turbo-Diesel L6 4.5625" Bore (Standard)	28
6619A ... Industrial Applications	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	42
6619TA ... Industrial Applications	10.1L 619 OHV Turbo-Diesel L6 5.125" Bore	42

Industrial Applications TF, TFD, TH, THD, TJD Engs. 1

.9L 53.9 L-HEAD L2, 3.25" Bore (Wisconsin Eng.)

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-V816		TF & TH Engs.; 1.3130" Head Dia., .3085" Stem Dia., 4.7660" O.A.L.
2	Intake	FP-V816		TFD & THD Engs.; 1.3130" Head Dia., .3085" Stem Dia., 4.7660" O.A.L.
4	Exhaust	FP-V1326X		Optional-H/D; TF & TH Engs.; 1.2500" Head Dia., .3085" Stem Dia., 4.7710" O.A.L.
2	Exhaust	FP-V1326X		TFD & THD Engs.; 1.2500" Head Dia., .3085" Stem Dia., 4.7710" O.A.L.
8	Keeper	FP-VK144		1 groove; Square cut key groove
8	Keeper	VK-115R		1 groove; Square cut key groove; Hardened
8	Keeper	VK-144R		1 groove; Square cut key groove; Hardened
8	Keeper, Bulk	FP-VK144B		1 groove; Square cut key groove; Carton of 1000
8	Keeper, Bulk	VK-115B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
2	Exh.	FP-24513755		1.3795" OD, 1.1250" ID, .2636" Depth

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
4	Guide	FP-VG635		.3155" ID, 2.5000" O.A.L.
4	Guide	FP-VG681		.439" x 1.812"; .3133" ID, 1.8100" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
4	Spring	FP-VS793		Exh.; Use w/RC-45 rotocap; 1.9700" Free Height
4	Spring	FP-VS468		Exh. & Int.; TF & TH Engs.; 2.3120" Free Height
2	Spring	FP-VS468		Int.; TFD & THD Engs.; 2.3120" Free Height

CAMSHAFT GROUP

QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Cam Gear	FP-2214108		TH & THD Engs.; 48 Teeth

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
2	Repair Sleeve	FP-SL11M		3/32" wall, must be cut to correct length

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
2	Cast Piston	FP-1115CP	*STD*	Cast; 3-3/32", 1-3/16" Ring Groove, 1.500" CD, .7500" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 4 ring piston in sets only
2	Cast Piston	FP-1115CP20	*20*	Cast; 3-3/32", 1-3/16" Ring Groove, 1.500" CD, .7500" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 4 ring piston in sets only
2	Cast Piston	FP-1115CP30	*30*	Cast; 3-3/32", 1-3/16" Ring Groove, 1.500" CD, .7500" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 4 ring piston in sets only
2	Cast Piston	FP-1115CP40	*40*	Cast; 3-3/32", 1-3/16" Ring Groove, 1.500" CD, .7500" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 4 ring piston in sets only
2	Cast Piston	FP-1115CP60	*60*	Cast; 3-3/32", 1-3/16" Ring Groove, 1.500" CD, .7500" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 4 ring piston in sets only
2	Cast Piston - Individual	FP-W1115CP	*STD*	Cast; 3-3/32", 1-3/16" Ring Groove, 1.500" CD, .7500" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 4 ring piston in sets only
2	Cast Piston - Individual	FP-W1115CP20	*20*	Cast; 3-3/32", 1-3/16" Ring Groove, 1.500" CD, .7500" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 3 ring piston in sets only
2	Cast Piston - Individual	FP-W1115CP30	*30*	Cast; 3-3/32", 1-3/16" Ring Groove, 1.500" CD, .7500" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 3 ring piston in sets only

(continued on next page)

1 (cont.) *Industrial Applications* TF, TFD, TH, THD, TJD Engs.
.9L 53.9 L-HEAD L2, 3.25" Bore (Wisconsin Eng.)

CYLINDER COMPONENTS (cont.)

QTY	PISTONS (cont.)	PART NO.	SIZE	DESCRIPTION
2	Cast Piston - Individual	**FP-W1115CP40**	*40*	Cast; 3-3/32", 1-3/16" Ring Groove, 1.500" CD, .7500" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 3 ring piston in sets only
2	Cast Piston - Individual	**FP-W1115CP60**	*60*	Cast; 3-3/32", 1-3/16" Ring Groove, 1.500" CD, .7500" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 3 ring piston in sets only
2	Pin Bushing	**FP-1394**		TF & TH Engs.; 1.000" max. length
2	Pin Bushing	**1394 +**		TF & TH Engs.; 1.000" max. length; When depleted use FP-1394

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
2	Rod Pair	**FP-3520CP**		
2	Rod Pair	**FP-3520CP10**		
2	Rod Pair	**FP-3520CP20**		
2	Rod Pair	**FP-3645CP**		TJD Engs.
2	Rod Pair	**FP-3645CP10**		TJD Engs.
2	Rod Pair	**FP-3645CP20**		TJD Engs.

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
1	Premium Set	**FP-5809KX**	*STD*	TF, TFD, TH & THD Engs.; 3-3/32, 1-3/16
1	Premium Set	**FP-5809KX20**	*20*	TF, TFD, TH & THD Engs.; 3-3/32, 1-3/16
1	Premium Set	**FP-5809KX40**	*40*	TF, TFD, TH & THD Engs.; 3-3/32, 1-3/16
1	Premium Set	**FP-5809KX60**	*60*	TF, TFD, TH & THD Engs.; 3-3/32, 1-3/16
1	Premium Set	**FP-9981KX**	*STD*	TJD Engs.; 2-5/64, 1-3/16
1	Standard Set	**FP-7079X**	*STD*	TF, TFD, TH & THD Engs.; 3-3/32, 1-3/16
1	Standard Set	**FP-7079X30**	*30*	TF, TFD, TH & THD Engs.; 3-3/32, 1-3/16
1	Standard Set	**FP-7079X40**	*40*	TF, TFD, TH & THD Engs.; 3-3/32, 1-3/16
2	Premium Single Cylinder Set	**W-5809KX** Std Only		TF, TFD, TH & THD Engs.; 3-3/32, 1-3/16

2 *Industrial Applications* 3029D, 3179D Engs.
2.9L 179 OHV Diesel L3 (Standard), 4.1875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R75729**		Sheet metal cover; Rocker arm cover codes 1102, 1103; From Ser. No. 576,074
1	Head Gasket	**FP-R97356**		RePower Engs.; Cyl. head codes 5101, 5102
1	Head Set	**FP-RE38850**		RePower Engs.; Cyl. head codes 5101, 5102
1	Oil Filler Cap Gasket	**FP-R80135**		Oil filler neck code 1201; Use w/O.E. filler neck No. R80137; L.H. Auxiliary drive
1	Oil Filler Cap Gasket	**FP-R80135**		Oil filler neck code 1204; Use w/O.E. filler neck No. RE26917; L.H. Auxiliary drive
1	Oil Filler Cap Gasket	**FP-T20328**		Rocker arm cover code 1103; Oil filler neck code 1201; Use w/O.E. filler neck No. T23614
1	Oil Filler Cap Gasket	**FP-T20328**		Rocker arm cover code 1103; Oil filler neck code 1204; Use w/O.E. filler neck No. RE44200
1	Oil Filler Cap Gasket	**FP-T20328**		Rocker arm cover code 1103; Oil filler neck codes 1202, 1203, 1206

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
3	Intake	**FP-R79623**	*STD*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
3	Intake	**FP-R79628**	*3*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
3	Intake	**FP-R79629**	*15*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
3	Intake	**FP-R79630**	*30*	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
3	Exhaust	**FP-R79624**	*STD*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
3	Exhaust	**FP-R79625**	*3*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
3	Exhaust	**FP-R79626**	*15*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
3	Exhaust	**FP-R79627**	*30*	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
12	Keeper	**FP-41339**		1 groove; Square cut key groove
12	Keeper	**FP-T20077**		1 groove; Square cut key groove; Hardened
12	Keeper, Bulk	**VK-138B**		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
3	Exh.	**FP-R51734**	*STD*	

(continued on next page)

+ Superseded Part Number

Industrial Applications **3029D, 3179D Engs.** **2**
2.9L 179 OHV Diesel L3 (Standard), 4.1875" Bore **(cont.)**

CYL. HEAD & PARTS (cont.)

QTY	VALVE SEAT (cont.)	PART NO.	SIZE	DESCRIPTION
3	Int.	FP-R73064	STD	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
6	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-RE11410		Exh.
1	Bushing	FP-T26321		Lower
1	Bushing	FP-T20034		Upper

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Exhaust Manifold Gasket	FP-R90658		
1	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
6	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
3	Fuel Injector Nozzle	FP-AR89564		
3	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle marked 27333; 9.270MM X 13.600MM X 5.080MM
3	Fuel Injector Nut	FP-R79604		w/Injector marked 27333
2	Clamp	FP-R34766		Pump code 3707
6	Washer Type Seal	FP-R51936		Leak-off & return line seals; w/Nozzle marked 27333

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Fuel Transfer Pump Gasket	FP-R97350		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Repair/Rebuild Kit	FP-944840979		w/Pump housing marked R52009
1	Water Pump Housing Gasket	FP-R55405		w/Pump housing marked R100812, R127918; Pump housing to back cover
1	Water Pump Housing Gasket	FP-R55406		w/Pump housing marked R55130; To Ser. No. 498,345; Pump housing to back cover
1	Water Pump Housing Gasket	FP-R55406		w/Pump housing marked R55164; From Ser. No. 498,346; Pump housing to back cover
1	Water Pump Housing Gasket	FP-R97455		w/Pump housing marked R73604, R91724, R91810; Pump housing to back cover
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R55130, R73604, R91810, R100812, R122337, R127918; Pump to block
1	Shaft & Bearing Assembly	FP-JD9448		w/Cast pulley; w/Pump housing marked R55164

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-AR61538		Thermostat code 2208; 181 Deg.
1	Thermostat Gasket	FP-T20219		Thermostat housing codes 3901 marked R60256, T20218; Thermostat housing codes 3909, 3910; Thermostat cover codes 2101, 2104, 3914 marked R91165
1	Thermostat Cover Gasket	FP-T20215		Thermostat cover codes 2101, 2102; Thermostat housing codes 2101, 2204, 3914; w/housing marked R91165

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		R.H.; Use w/Flywheel housing SAE 4; w/2 hole mounting
1	Oil Pan Gasket	FP-R97341		Exc. Alum. oil pan
1	Block to End Plate Front Gskt	FP-R131794		Front plate codes 3601, 3602, 3695

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-PG219CS		Rubber one-piece rear main brg. seal incl.; Wear sleeve incl.
1	In-Frame Gasket Set	FP-PG164S		
1	Complete Overhaul Gasket Set	FP-RE50978		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE50978WS		Incl. crankshaft seals

(continued on next page)

2 (cont.) *Industrial Applications* 3029D, 3179D Engs.
2.9L 179 OHV Diesel L3 (Standard), 4.1875" Bore

ENGINE BLOCK & PARTS (cont.)

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R105714		Oil cooler; Modine Oil Cooler codes 5904, 5906
1	Rect. or Square Seal	FP-R70956		Cooler housing w/relief valve; w/Behr cooler codes 5904, 5906; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-AT18031		
1	Oil Seal Kit	FP-SK67942		RePower Engs.; Crankshaft codes 4701, 4703, 4704, 4705; Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		
1	O-Ring	FP-H35244		Crankshaft pulley; Pulley codes 1313, 1314, 1329; Crankshaft, Bearing codes 4701, 4702, 4704, 4705, 4710

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		RePower Engs.; Crankshaft codes 4701, 4702, 4710

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3003	STD	w/Flanged thrust brg.
1	Main Set	FP-MBK300310	10	w/Flanged thrust brg.
1	Main Set	FP-MBK300320	20	w/Flanged thrust brg.
1	Main Set	FP-MBK300330	30	w/Flanged thrust brg.
3	Plain Main Brg.	FP-RE27352	STD	w/Flangeless thrust brg.
3	Plain Main Brg.	FP-RE27353	10	w/Flangeless thrust brg.
3	Plain Main Brg.	FP-RE27360	20	w/Flangeless thrust brg.
3	Plain Main Brg.	FP-RE27368	30	w/Flangeless thrust brg.
1	Flanged Main Brg.	FP-RE521350	STD	
1	Flanged Main Brg.	FP-RE526754	10	
1	Flanged Main Brg.	FP-RE527235	20	
1	Flanged Main Brg.	FP-RE527236	30	
3	Thrust Washer	FP-R78598	STD	Use w/Flangeless thrust brg.

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R74354		Oil pump outlet tube; Pump code 5001; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck codes 1201, 1202, 1203, 1206, 1299

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
3	Liner w/o Sealing Ring	FP-R116281		
3	Liner w/Sealing Rings	FP-RE500023		
3	Cylinder Kit Complete	FP-RE30250	STD	w/Con. Rod marked R51727, R80034
3	Cyl. Liner Sealing Ring Kit	FP-AR65507		
3	Sealing Ring, Liner	FP-R48767		Rectangle; Top
3	Sealing Ring	FP-SLR2520		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
3	Piston Body w/o Pin	FP-RE19282		
3	Piston Kit w/Pin & Retainers	FP-RE19282WP		
3	Pin	FP-R125754		1.38" pin dia.
6	Piston Pin Retainer	FP-M41029		For 1.38" pin dia.
3	Pin Bushing	FP-R55647		w/Con. Rod marked R51727, R80034; 1.3765" ID, 1.500" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Con. Rod Bolt	FP-R80033		w/Con. Rod marked R51727, R80032, R80034, R81410, R105011, R113612; Torque-To-Yield bolt; Replacement recommended
6	Con. Rod Bolt	FP-R74194		w/Con. Rod marked T20007, R51727, R58979; Torque-To-Yield bolt; Replacement recommended
3	Rod Pair	FP-RE27348	STD	
3	Rod Pair	FP-RE27349	10	
3	Rod Pair	FP-RE27358	20	
3	Rod Pair	FP-RE27364	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
3	Ring Set Single Cylinder	FP-RE507852	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
3	Ring Set Single Cylinder	FP-RE66820	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

(continued on next page)

Industrial Applications **3029D, 3179D Engs.** **2**
2.9L 179 OHV Diesel L3 (Standard), 4.1875" Bore **(cont.)**

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-179DIFK**		w/Con. Rod marked R51727, R80034; Crankshaft codes 4701, 4703, 4704, 4705; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-179DOHK**		w/Con. Rod marked R51727, R80034; RePower Engs.; Crankshaft codes 4701, 4703, 4704, 4705; Incl. front & rear seals; Incl. Torque-To-Yield con. rod bolts

Industrial Applications **3029T, 3179T Engs.** **3**
2.9L 179 OHV Turbo-Diesel L3 (Standard), 4.1875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R75729**		Sheet metal cover; Rocker arm cover codes 1102, 1103; From Ser. No. 576,074
1	Head Gasket	**FP-R97356**		RePower Engs.; Cyl. head codes 5101, 5102
1	Head Set	**FP-RE38850**		RePower Engs.; Cyl. head codes 5101, 5102

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
3	Intake	**FP-R83071**	*STD*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3720" Stem Dia., 5.1660" O.A.L.
3	Intake	**FP-R89223**	*3*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3750" Stem Dia., 5.1660" O.A.L.
3	Intake	**FP-R89224**	*15*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3870" Stem Dia., 5.1660" O.A.L.
3	Intake	**FP-R79623**	*STD*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
3	Intake	**FP-R79628**	*3*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
3	Intake	**FP-R79629**	*15*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
3	Intake	**FP-R79630**	*30*	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
3	Exhaust	**FP-R79624**	*STD*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
3	Exhaust	**FP-R79625**	*3*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
3	Exhaust	**FP-R79626**	*15*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
3	Exhaust	**FP-R79627**	*30*	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
12	Keeper	**FP-41339**		1 groove; Square cut key groove
12	Keeper	**FP-T20077**		1 groove; Square cut key groove; Hardened
12	Keeper, Bulk	**VK-138B**		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
3	Exh.	**FP-R51734**	*STD*	
3	Int.	**FP-R73064**	*STD*	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
6	Spring	**FP-R26125**		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	**FP-RE11410**		Exh.
1	Bushing	**FP-T26321**		Lower
1	Bushing	**FP-T20034**		Upper
1	Oil Filler Cap Gasket	**FP-T20328**		Rocker arm cover code 1103; Oil filler neck codes 1201, 1202, 1203, 1204, 1206

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	**FP-R87627**		Exh. & Int.; O-Ring type

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	**FP-JD9449**		Front; Motorola components; Codes 3104, 3118; 12 Volt, 30 amp alternator
2	Ball Brg.	**FP-JD9449**		Front & Rear; 24 Volt, 45 amp alternator; 12 Volt, 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Exhaust Manifold Gasket	**FP-R90658**		

(continued on next page)

3 (cont.) *Industrial Applications* 3029T, 3179T Engs.
2.9L 179 OHV Turbo-Diesel L3 (Standard), 4.1875" Bore

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
6	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
3	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1602, 1603; Nozzle marked 26992; 9.270MM X 13.600MM X 5.080MM
3	Fuel Injector Nut	FP-R79604		w/Injector marked 26992
2	Clamp	FP-R34766		Pump code 3707
6	Washer Type Seal	FP-R51936		Leak-off & return line seals; w/Nozzle codes 1602, 1632; w/Nozzle marked 26992

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Fuel Transfer Pump Gasket	FP-R97350		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Housing Gasket	FP-R55405		w/Pump housing marked R55130, R55164, R100812, R127912
1	Water Pump Housing Gasket	FP-R97455		w/Pump housing marked R73604, R91724
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R55130, R73604, R91724, R91810, R100812, R122337, R127918
1	Shaft & Bearing Assembly	FP-JD9448		w/Cast pulley; w/Pump housing marked R55164

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-AR61538		Thermostat code 2208; 181 Deg.
1	Thermostat Gasket	FP-T20219		Thermostat housing codes 3901 marked R60256, T20218; Thermostat housing codes 3909, 3910; Thermostat cover codes 2101, 2104, 3914 marked R91165
1	Thermostat Cover Gasket	FP-T20215		Thermostat cover codes 2101, 2102; Thermostat housing codes 2101, 2204, 3914; w/housing marked R91165

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		R.H.; Use w/Flywheel housing SAE 4; w/2 hole mounting
1	Oil Pan Gasket	FP-R97341		Exc. Alum. oil pan
1	Block to End Plate Front Gskt	FP-R131794		Front plate codes 3601, 3602, 3695

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-PG219CS		Rubber one-piece rear main brg. seal incl.; Wear sleeve incl.
1	In-Frame Gasket Set	FP-PG164S		
1	Complete Overhaul Gasket Set	FP-RE50978		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE50978WS		Incl. crankshaft seals

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	FP-RE61767		w/6 plates; Cooler codes 5904, 5906; From Ser. No. 794,194
1	Rect. or Square Seal	FP-R70956		Cooler housing w/relief valve; w/Behr cooler codes 5904, 5906; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-AT18031		
1	Oil Seal Kit	FP-SK67942		RePower Engs.; Crankshaft codes 4701, 4702, 4703, 4705, 4710; Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		
1	O-Ring	FP-H35244		Crankshaft pulley; Pulley codes 1313, 1314, 1329; Crankshaft, Bearing codes 4701, 4702, 4704, 4705, 4710

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		RePower Engs.; Crankshaft codes 4701, 4702, 4710

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3003	*STD*	w/Flanged thrust brg.
1	Main Set	FP-MBK300310	*10*	w/Flanged thrust brg.
1	Main Set	FP-MBK300320	*20*	w/Flanged thrust brg.
1	Main Set	FP-MBK300330	*30*	w/Flanged thrust brg.
3	Plain Main Brg.	FP-RE27352	*STD*	w/Flangeless thrust brg.
3	Plain Main Brg.	FP-RE27353	*10*	w/Flangeless thrust brg.
3	Plain Main Brg.	FP-RE27360	*20*	w/Flangeless thrust brg.

(continued on next page)

Industrial Applications **3029T, 3179T Engs.** **3**
2.9L 179 OHV Turbo-Diesel L3 (Standard), 4.1875" Bore **(cont.)**

CRANKSHAFT/OIL PUMP (cont.)

QTY	MAIN BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
3	Plain Main Brg.	FP-RE27368	30	w/Flangeless thrust brg.
1	Flanged Main Brg.	FP-RE521350	STD	
1	Flanged Main Brg.	FP-RE526754	10	
1	Flanged Main Brg.	FP-RE527235	20	
1	Flanged Main Brg.	FP-RE527236	30	
3	Thrust Washer	FP-R78598	STD	Use w/Flangeless thrust brg.

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R74354		Oil pump outlet tube; Pump codes 5001, 5002; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck codes 1201, 1202, 1203, 1206, 1299

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
3	Liner w/o Sealing Ring	FP-R116281		
3	Liner w/Sealing Rings	FP-RE500023		
3	Cylinder Kit Complete	FP-RE33115		w/Con. Rod marked R58979, R80032, R113612
3	Cyl. Liner Sealing Ring Kit	FP-AR65507		
3	Sealing Ring, Liner	FP-R48767		Rectangle; Top
3	Sealing Ring	FP-SLR2520		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
3	Piston Body w/o Pin	FP-RE48368		
3	Piston Kit w/Pin & Retainers	FP-RE48368WP		
3	Pin	FP-R124230		1.62" pin dia.
6	Piston Pin Retainer	FP-R54114		For 1.62" pin dia.
3	Pin Bushing	FP-R57451		w/Con. Rod marked R56187, R58979, R80032, R113612; Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Con. Rod Bolt	FP-R80033		w/Con. Rod marked R80032, R80034, R81410, R105011, R113612; Torque-To-Yield bolt; Replacement recommended
6	Con. Rod Bolt	FP-R74194		w/Con. Rod marked T20007, R51727, R58979; Torque-To-Yield bolt; Replacement recommended
3	Rod Pair	FP-RE27348	STD	
3	Rod Pair	FP-RE27349	10	
3	Rod Pair	FP-RE27358	20	
3	Rod Pair	FP-RE27364	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
3	Ring Set Single Cylinder	FP-RE507852	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
3	Ring Set Single Cylinder	FP-RE66820	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-179TIFK		w/Con. Rod marked R80032, R113612; Crankshaft codes 4701, 4702, 4705, 4710; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-179TOHK		w/Con. Rod marked R58979, R80032, R80034, R81410, R10511, R113612; Pin dia. 1.62"; RePower Engs.; Crankshaft codes 4701, 4702, 4703, 4705; Incl. front & rear seals; Incl. Torque-To-Yield con. rod bolts

Industrial Applications **3029D Eng.** **4**
2.9L 179.2 (2938cc) OHV Diesel L3 (Litre Engine), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	FP-R97356		Cyl. head codes 5104, 5105, 5106
1	Head Set	FP-RE38850		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
3	Intake	FP-R98062	STD	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
3	Intake	FP-R97490	15	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
3	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
3	Exhaust	FP-R97492	15	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
12	Keeper	FP-R91889		

(continued on next page)

4 *Industrial Applications* 3029D Eng.
(cont.) 2.9L 179.2 (2938cc) OHV Diesel L3 (Litre Engine), 106mm Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
3	Exh.	FP-R85687	STD	
3	Int.	FP-R98335		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
3	Int.	FP-R98063	STD	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
6	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-RE60005		Exh. & Int.
1	Oil Filler Cap Gasket	FP-T20328		Oil filler neck codes 1201, 1202, 1203, 1206

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	FP-RE31617		Positive type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube codes 2902, 2911, 2999

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Exhaust Manifold Gasket	FP-R90658		
1	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-R97454		Front cover
1	Timing Gear Cover Gasket	FP-R108654		Use w/R.H. side gear dr. timing gear cover

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
3	Fuel Injector Nozzle	FP-RE36935		w/Injector marked 28480
3	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle marked 28480; 9.270MM X 13.600MM X 5.080MM
3	Fuel Injector Nut	FP-R79604		w/Injector marked 28484
6	Washer Type Seal	FP-R51936		Leak-off & return line seals; w/Nozzle marked 28480
3	Washer Type Seal	FP-R48000		Lower; w/Nozzle marked 28480, 28484
3	Washer Type Seal	FP-R60746		Upper; w/Nozzle marked 28480

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Repair/Rebuild Kit	FP-944840979		w/Pump housing marked R52009
1	Water Pump Repair/Rebuild Kit	FP-RE62658		w/Pump housing marked R73604, R91724; From Ser. No. 100,000
1	Water Pump Housing Gasket	FP-R97455		w/Pump housing marked R73604
1	Water Pump Mounting Gasket	FP-T20243		w/H/D Pump housing marked R100812, R127918
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R48997, R55164, R73604, R110541
1	Shaft & Bearing Assembly	FP-JD9448		w/Cast pulley; w/Pump housing marked R55164

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-AR61538		Thermostat code 2208; 181 Deg.
1	Thermostat Cover Gasket	FP-T20215		Thermostat cover codes 2101, 2102
1	Therm. Hsg. - Water Mfld. Gsk	FP-R54641		Thermostat housing to cyl. head; To Ser. No. 205,211

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R97341		Exc. Alum. oil pan
1	Oil Pan Gasket Set	FP-PG300PS		Exc. Alum. oil pan; Incl. O-rings
1	Block to End Plate Front Gskt	FP-R131794		Front plate code 3604; R.H. side gear drive

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG164S		
1	Complete Overhaul Gasket Set	FP-RE50978		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE50978WS		Incl. crankshaft seals

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		R.H. Side gear drive; From Ser. No. 100,000

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	FP-RE61767		w/6 plates; Cooler codes 5904, 5906, 5908, 5914, 5916; From Ser. No. 185,224
1	Rect. or Square Seal	FP-R70956		Cooler housing w/relief valve; Oil cooler codes 5904, 5906, 5908, 5914, 5916; To Ser. No. 185,223; 2.700" X 3.000" X .180"

(continued on next page)

Industrial Applications **3029D Eng.** **4**
2.9L 179.2 (2938cc) OHV Diesel L3 (Litre Engine), 106mm Bore **(cont.)**

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft codes 4702, 4704, 4705, 4710; From Ser. No. 100,000
QTY	**SEALS - FRONT CRANK**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Crankshaft Front Seal	**FP-AR67942**		
1	O-Ring	**FP-H35244**		Crankshaft pulley; Pulley codes 1313, 1314, 1329
QTY	**SEALS - REAR CRANK**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Crankshaft Rear Seal	**FP-RE24959**		Crankshaft codes 4702, 4704, 4705, 4710; From Ser. No. 100,000
QTY	**MAIN BEARINGS**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Main Set	**FP-MBK3003**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300310**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300320**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300330**	*30*	w/Flanged thrust brg.
3	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
3	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
3	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
3	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
3	Thrust Washer	**FP-R78598**	*STD*	Use w/Flangeless thrust brg.
QTY	**OIL PUMP**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	O-Ring	**FP-R61871**		Oil pump inlet; Pump codes 5001, 5002, 5005, 5007, 5012, 5016
1	O-Ring	**FP-R74354**		Oil pump outlet tube; Pump codes 5001, 5002, 5005, 5007, 5008, 5009, 5010, 5011, 5012, 5013, 5014, 5015, 5016; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1201, 1203, 1299

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
3	Liner w/o Sealing Ring	**FP-R116281**		
3	Liner w/Sealing Rings	**FP-RE500023**		
3	Cylinder Kit Complete	**FP-RE30250**	*STD*	w/Con. Rod marked R51727, R80034
3	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		
3	Sealing Ring, Liner	**FP-R48767**		Rectangle; Top
3	Sealing Ring	**FP-SLR2520**		Round; Bottom
QTY	**PISTONS**	***PART NO.***	**SIZE**	**DESCRIPTION**
3	Piston Body w/o Pin	**FP-RE19282**		
3	Piston Kit w/Pin & Retainers	**FP-RE19282WP**		
3	Pin	**FP-R125754**		1.38" pin dia.
6	Piston Pin Retainer	**FP-M41029**		For 1.38" pin dia.
3	Pin Bushing	**FP-R55647**		w/Con. Rod marked R51727, R80034; 1.3765" ID, 1.500" OD, 1.570" O.A.L.
QTY	**CONNECTING RODS & BRGS.**	***PART NO.***	**SIZE**	**DESCRIPTION**
6	Con. Rod Bolt	**FP-R80033**		w/Con. Rod marked R51727, R80032, R80034, R81410, R105011, R113612; Torque-To-Yield bolt; Replacement recommended
3	Rod Pair	**FP-RE27348**	*STD*	
3	Rod Pair	**FP-RE27349**	*10*	
3	Rod Pair	**FP-RE27358**	*20*	
3	Rod Pair	**FP-RE27364**	*30*	
QTY	**PISTON RINGS**	***PART NO.***	**SIZE**	**DESCRIPTION**
3	Ring Set Single Cylinder	**FP-RE507852**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
3	Ring Set Single Cylinder	**FP-RE66820**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-179DIFK**		w/Con. Rod marked R51727, R80034; Crankshaft codes 4702, 4705, 4710; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-179DOHK**		w/Con. Rod marked R51727, R80034; Crankshaft codes 4702, 4705, 4710; Incl. front & rear seals; From Ser. No. 100,000; Incl. Torque-To-Yield con. rod bolts

5 *Industrial Applications* 3029D PowerTech Eng.
2.9L 179.2 (2938cc) OHV Diesel L3 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	FP-R97356		Cyl. head codes 5104, 5105, 5106
1	Head Set	FP-RE38850		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
3	Intake	FP-R98062	STD	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
3	Intake	FP-R97490	.15	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
3	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
3	Exhaust	FP-R97492	.15	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
12	Keeper	FP-R91889		Exh. & Int.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
6	Spring	FP-R26125		Exh. & Int.; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-RE60005		Exh. & Int.
1	Oil Filler Cap Gasket	FP-T20328		Oil filler neck codes 1201, 1202, 1203, 1206

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	FP-RE31617		Exh. & Int.; Positive type

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Exhaust Manifold Gasket	FP-R90658		
1	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-R97454		Front cover
1	Timing Gear Cover Gasket	FP-R108654		Use w/R.H. side gear dr. timing gear cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
6	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
3	Fuel Injector Nozzle	FP-RE36935		w/Injector marked 28480
3	Fuel Injector Nut	FP-R79604		w/Injector marked 28480
3	FI Installation Kit	FP-RE65201		
6	Washer Type Seal	FP-R51936		Leak-off & return line seals; w/Nozzle marked 28480
3	Washer Type Seal	FP-R48000		Lower; w/Nozzle marked 28480, 28484
3	Washer Type Seal	FP-R60746		Upper; w/Nozzle marked 28480

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Repair/Rebuild Kit	FP-RE62658		Pump codes 2010, 2020, 2022, 2023; w/Pump housing marked R73604
1	Water Pump Housing Gasket	FP-R97455		w/Pump housing marked R73604
1	Water Pump Mounting Gasket	FP-T20243		w/H/D Pump housing marked R100812, R127918
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R48997, R55164, R73604, R110541

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat Cover Gasket	FP-T20215		Thermostat cover codes 2101, 2102
1	Therm. Hsg. - Water Mfld. Gsk	FP-R54641		Thermostat housing to cyl. head; To Ser. No. 205,211

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R97341		Exc. Alum. oil pan
1	Oil Pan Gasket Set	FP-PG300PS		Exc. Alum. oil pan; Incl. O-rings
1	Block to End Plate Front Gskt	FP-R131794		Front plate code 3604; R.H. side gear drive

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG164S		
1	Complete Overhaul Gasket Set	FP-RE50978		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE50978WS		Incl. crankshaft seals

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	FP-RE61767		Cooler codes 5904, 5906, 5908, 5914, 5920

(continued on next page)

Industrial Applications **3029D PowerTech Eng.** **5**
2.9L 179.2 (2938cc) OHV Diesel L3 (PowerTech 2V), 106mm Bore **(cont.)**

ENGINE BLOCK & PARTS (cont.)

QTY	OIL COOLERS & FILTERS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Rect. or Square Seal	**FP-R70956**		Cooler housing w/relief valve; Oil cooler codes 5904, 5906, 5908, 5914, 5916; To Ser. No. 185,223; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-SK67942**		RePower Engs.; Incl. front & rear seals; Crankshaft codes 4702, 4710

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		
1	O-Ring	**FP-H35244**		Crankshaft pulley; Pulley codes 1313, 1314, 1329

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		Crankshaft codes 4702, 4710

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
3	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
3	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
3	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
3	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
4	Thrust Washer	**FP-R78598**	*STD*	Use w/Flangeless thrust brg.

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	**FP-RE55343**		w/Pump housing marked R54615
1	O-Ring	**FP-R61871**		Oil pump inlet; Pump codes 5001, 5002, 5005, 5007, 5012, 5016
1	O-Ring	**FP-R74354**		Oil pump outlet tube; Pump codes 5001, 5002, 5005, 5007, 5008, 5009, 5010, 5011, 5012, 5013, 5014, 5015, 5016; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1201, 1203, 1299

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
3	Liner w/o Sealing Ring	**FP-R116281**		
3	Liner w/Sealing Rings	**FP-RE500023**		
3	Cylinder Kit Complete	**FP-RE66968 ***	*STD*	From Ser. No. 252768; Piston numbers RE61467, RE500210
3	Cylinder Kit Complete	**FP-RE48721 ***	*STD*	To Ser. No. 252767
3	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
3	Piston Kit w/Pin & Retainers	**FP-RE61467WP ***	*STD*	From Ser. No. 252768

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Con. Rod Bolt	**FP-R80033**		w/Con. Rod marked R121092; Torque-To-Yield bolt; Replacement recommended
3	Rod Pair	**FP-RE27348**	*STD*	w/Con. Rod marked R121092
3	Rod Pair	**FP-RE27349**	*10*	w/Con. Rod marked R121092
3	Rod Pair	**FP-RE27358**	*20*	w/Con. Rod marked R121092
3	Rod Pair	**FP-RE27364**	*30*	w/Con. Rod marked R121092

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
3	Ring Set Single Cylinder	**FP-RE66271**	*STD*	From Ser. No. 252,768; Piston codes RE61467, RE61270
3	Ring Set Single Cylinder	**FP-RE507852**	*STD*	To Ser. No. 252,767; Piston codes RE45323, RE40557; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
3	Ring Set Single Cylinder	**FP-RE66820**	*STD*	To Ser. No. 252,767; Piston codes RE45323, RE40557; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

Industrial Applications **3029T Eng.** **6**
2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 (Litre Engine), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	**FP-R97356**		Cyl. head codes 5104, 5105, 5106

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
3	Intake	**FP-R98062**	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
3	Intake	**FP-R97490**	*15*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.

(continued on next page)

6 (cont.) *Industrial Applications* **3029T Eng.**
2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 (Litre Engine), 106mm Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE (cont.)	PART NO.	SIZE	DESCRIPTION
3	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
3	Exhaust	FP-R97492	15	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
12	Keeper	FP-R91889		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
3	Exh.	FP-R85687	STD	
3	Int.	FP-R98335		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
3	Int.	FP-R98063	STD	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
6	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-RE60005		Exh. & Int.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	FP-RE31617		Positive type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube code 2901 R.H.; Codes 2902, 2903 L.H.; Codes 2905, 2909, 2911, 2915, 2999

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Exhaust Manifold Gasket	FP-R90658		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-R97454		Front cover
1	Timing Gear Cover Gasket	FP-R108654		Use w/R.H. side gear dr. timing gear cover

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
3	Fuel Injector Nozzle	FP-RE36939		w/Injector marked 28484
3	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle marked 28484; 9.270MM X 13.600MM X 5.080MM
3	Fuel Injector Nut	FP-R79604		w/Injector marked 28484
3	FI Installation Kit	FP-RE65201		
6	Washer Type Seal	FP-R51936		Leak-off & return line seals; w/Nozzle marked 28484

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Repair/Rebuild Kit	FP-944840979		w/Pump housing marked R52009
1	Water Pump Repair/Rebuild Kit	FP-RE62658		w/Pump housing marked R73604, R91724; From Ser. No. 100,000
1	Water Pump Housing Gasket	FP-R97455		w/Pump housing marked R73604
1	Water Pump Mounting Gasket	FP-T20243		w/H/D Pump housing marked R100812, R127918
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R55164, R73604, R91724, R110541
1	Shaft & Bearing Assembly	FP-JD9448		w/Cast pulley; w/Pump housing marked R55164

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-AR61538		Thermostat code 2208; 181 Deg.

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R97341		Exc. Alum. oil pan
1	Oil Pan Gasket Set	FP-PG300PS		Exc. Alum. oil pan; Incl. O-rings
1	Block to End Plate Front Gskt	FP-R131794		Front plate code 3604; R.H. side gear drive

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG164S		
1	Complete Overhaul Gasket Set	FP-RE50978		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE50978WS		Incl. crankshaft seals

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		R.H. Side gear drive; From Ser. No. 100,000

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	FP-RE61767		w/6 plates; Cooler codes 5904, 5906, 5908, 5914, 5916; From Ser. No. 185,224
1	Rect. or Square Seal	FP-R70956		Cooler housing w/relief valve; Oil cooler codes 5904, 5906, 5908, 5914, 5916; To Ser. No. 185,223; 2.700" X 3.000" X .180"

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Industrial Applications **3029T Eng.** **6**
2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 (Litre Engine), 106mm Bore **(cont.)**

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft codes 4702, 4704, 4705, 4710; From Ser. No. 100,000

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		
1	O-Ring	**FP-H35244**		Crankshaft pulley; Pulley codes 1313, 1314, 1329

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		Crankshaft codes 4702, 4704, 4705, 4710; From Ser. No. 100,000

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3003**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300310**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300320**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300330**	*30*	w/Flanged thrust brg.
3	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
3	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
3	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
3	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
3	Thrust Washer	**FP-R78598**	*STD*	Use w/Flangeless thrust brg.

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil pump inlet; Pump codes 5001, 5002, 5005, 5007, 5012, 5016
1	O-Ring	**FP-R74354**		Oil pump outlet tube; Pump codes 5001, 5002, 5007, 5008, 5009, 5010, 5011, 5012, 5013, 5014, 5015, 5016; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck code 1299

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
3	Liner w/o Sealing Ring	**FP-R116281**		
3	Liner w/Sealing Rings	**FP-RE500023**		
3	Cylinder Kit Complete	**FP-RE33115**		w/Con. Rod marked R58979, R80032, R113612
3	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		
3	Sealing Ring, Liner	**FP-R48767**		Rectangle; Top
3	Sealing Ring	**FP-SLR2520**		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
3	Piston Body w/o Pin	**FP-RE48368**		
3	Piston Kit w/Pin & Retainers	**FP-RE48368WP**		
3	Pin	**FP-R124230**		1.62" pin dia.
6	Piston Pin Retainer	**FP-R54114**		For 1.62" pin dia.
3	Pin Bushing	**FP-R57451**		w/Con. Rod marked R56187, R58979, R80032, R113612; Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Con. Rod Bolt	**FP-R80033**		w/Con. Rod marked R80032, R80034, R81410, R105011, R113612; Torque-To-Yield bolt; Replacement recommended
3	Rod Pair	**FP-RE27348**	*STD*	
3	Rod Pair	**FP-RE27349**	*10*	
3	Rod Pair	**FP-RE27358**	*20*	
3	Rod Pair	**FP-RE27364**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
3	Ring Set Single Cylinder	**FP-RE507852**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
3	Ring Set Single Cylinder	**FP-RE66820**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-179TIFK**		w/Con. Rod marked R80032, R113612; Crankshaft codes 4701, 4702, 4705, 4710; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-179TOHK**		w/Con. Rod marked R80032, R113612; Pin dia. 1.62"; Crankshaft codes 4702, 4704, 4705, 4710; Incl. front & rear seals; From Ser. No. 100,000; Incl. Torque-To-Yield con. rod bolts

7 *Industrial Applications* 3029T PowerTech Eng.
2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	FP-R97356		Cyl. head codes 5104, 5105, 5106
1	Head Set	FP-RE38850		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
3	Intake	FP-R98062	STD	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
3	Intake	FP-R97490	.15	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
3	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
3	Exhaust	FP-R97492	.15	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
12	Keeper	FP-R91889		Exh. & Int.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
6	Spring	FP-R26125		Exh. & Int.; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-RE60005		Exh. & Int.
1	Oil Filler Cap Gasket	FP-T20328		Oil filler neck codes 1201, 1202, 1203, 1206

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
6	Valve Stem Seal	FP-RE31617		Exh. & Int.; Positive type

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Exhaust Manifold Gasket	FP-R90658		
1	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-R97454		Front cover
1	Timing Gear Cover Gasket	FP-R108654		Use w/R.H. side gear dr. timing gear cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
6	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
3	Fuel Injector Nozzle	FP-RE36935		w/Injector marked 28484
3	Fuel Injector Nozzle	FP-RE48786		w/Injector marked 29279
3	Fuel Injector Nut	FP-R79604		w/Injector marked 28484, 29279
3	FI Installation Kit	FP-RE65201		
6	Washer Type Seal	FP-R51936		Leak-off & return line seals; w/Nozzle marked 28480, 28484, 29279
3	Washer Type Seal	FP-R48000		Lower; w/Nozzle marked 28480, 28484
3	Washer Type Seal	FP-R60746		Upper; w/Nozzle marked 28480

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Repair/Rebuild Kit	FP-RE62658		Pump codes 2010, 2020, 2022, 2023; w/Pump housing marked R73604
1	Water Pump Housing Gasket	FP-R97455		w/Pump housing marked R73604
1	Water Pump Mounting Gasket	FP-T20243		w/H/D Pump housing marked R100812, R127918
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R48997, R55164, R73604, R110541

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat Cover Gasket	FP-T20215		Thermostat cover codes 2101, 2102
1	Therm. Hsg. - Water Mfld. Gsk	FP-R54641		Thermostat housing to cyl. head; To Ser. No. 205,211

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R97341		Exc. Alum. oil pan
1	Oil Pan Gasket Set	FP-PG300PS		Exc. Alum. oil pan; Incl. O-rings
1	Block to End Plate Front Gskt	FP-R131794		Front plate code 3604; R.H. side gear drive

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG164S		
1	Complete Overhaul Gasket Set	FP-RE50978		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE50978WS		Incl. crankshaft seals

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

(continued on next page)

Industrial Applications **3029T PowerTech Eng.** **7**
2.9L 179.2 (2938cc) OHV Turbo-Diesel L3 (PowerTech 2V), 106mm Bore **(cont.)**

ENGINE BLOCK & PARTS (cont.)

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	**FP-RE61767**		Cooler codes 5904, 5906, 5908, 5914, 5920
1	Rect. or Square Seal	**FP-R70956**		Cooler housing w/relief valve; Oil cooler codes 5904, 5906, 5908, 5914, 5916; To Ser. No. 185,223; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft codes 4702, 4704, 4705, 4710; From Ser. No. 100,000

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		
1	O-Ring	**FP-H35244**		Crankshaft pulley; Pulley codes 1313, 1314, 1329

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		Crankshaft codes 4702, 4704, 4705, 4710; From Ser. No. 100,000

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
3	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
3	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
3	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
3	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
4	Thrust Washer	**FP-R78598**	*STD*	Use w/Flangeless thrust brg.

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	**FP-RE55343**		w/Pump housing marked R54615
1	O-Ring	**FP-R61871**		Oil pump inlet; Pump codes 5001, 5002, 5005, 5007, 5012, 5016
1	O-Ring	**FP-R74354**		Oil pump outlet tube; Pump codes 5001, 5002, 5005, 5007, 5008, 5009, 5010, 5011, 5012, 5013, 5014, 5015, 5016; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1201, 1203, 1299

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
3	Liner w/o Sealing Ring	**FP-R116281**		
3	Liner w/Sealing Rings	**FP-RE500023**		
3	Cylinder Kit Complete	**FP-RE67426** *	*STD*	From Ser. No. 258847
3	Cylinder Kit Complete	**FP-RE48724** *	*STD*	To Ser. No. 258846
3	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Pin Retainer	**FP-R54114**		For 1.62" pin dia.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Con. Rod Bolt	**FP-R80033**		w/Con. Rod marked R105011; Torque-To-Yield bolt; Replacement recommended
3	Rod Pair	**FP-RE27348**	*STD*	w/Con. Rod marked R105011
3	Rod Pair	**FP-RE27349**	*10*	w/Con. Rod marked R105011
3	Rod Pair	**FP-RE27358**	*20*	w/Con. Rod marked R105011
3	Rod Pair	**FP-RE27364**	*30*	w/Con. Rod marked R105011

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
3	Ring Set Single Cylinder	**FP-RE66271**	*STD*	From Ser. No. 258,847; Piston codes RE61467, RE61270
3	Ring Set Single Cylinder	**FP-RE507852**	*STD*	To Ser. No. 258,846; Piston codes RE45323, RE40557; Piston & Liner code 4808; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
3	Ring Set Single Cylinder	**FP-RE66820**	*STD*	To Ser. No. 258,846; Piston codes RE45323, RE40557; Piston & Liner code 4808; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

Industrial Applications **4239D Eng.** **8**
3.9L 239 OHV Diesel L4 (Standard), 4.1875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R73521**		w/Stamped Steel Cover; Rocker arm cover codes 1101, 1102, 1106; From Ser. No. 539,557
1	Head Gasket	**FP-R125863**		From Ser. No. 300,000
1	Head Set	**FP-RE38851**		From Ser. No. 300,000

(continued on next page)

8 *Industrial Applications* **4239D Eng.**
(cont.) 3.9L 239 OHV Diesel L4 (Standard), 4.1875" Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R79623	STD	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79628	3	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79629	15	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79630	30	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79624	STD	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79625	3	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79626	15	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79627	30	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
16	Keeper	FP-T20077		Valve, seat, spring & retainer code 5101; 1 groove; Square cut key groove; Hardened
16	Keeper	FP-41339		1 groove; Square cut key groove
16	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	FP-R51734	STD	
4	Int.	FP-R73064	STD	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	FP-RE11410		Exh. & Int.; Valve, seat, spring & retainer code 5101
1	Bushing	FP-T26321		Lower
1	Bushing	FP-T20034		Upper
1	Oil Filler Cap Gasket	FP-R80135		Oil filler neck code 1201; Use w/O.E. filler neck No. R80137; L.H. Auxiliary drive
1	Oil Filler Cap Gasket	FP-T20328		Oil filler neck code 1201; Use w/O.E. filler neck No. T23614; Rocker arm cover code 1101
1	Oil Filler Cap Gasket	FP-R80135		Oil filler neck codes 1202, 1203; L.H. Auxiliary drive
1	Oil Filler Cap Gasket	FP-T20328		Oil filler neck codes 1202, 1203, 1206; Rocker arm cover code 1101; Stamped steel

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3001, 3013, 3017, 3018

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Motorola No. A12NJD604; Code 3102; 12 Volt, 35 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. 70D44110C01; Code 3102; 12 Volt, 55 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. 70D44120C01; Code 3101; 12 Volt, 35 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. 8TA2009S; Code 3104; 12 Volt, 30 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola No. 70D42076T02; Codes 3101, 3104, 3108, 3109, 3116, 3129, 3130; 12 Volt, 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
4	Exhaust Manifold Gasket	FP-R90658		
1	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	FP-T20073		

(continued on next page)

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	*PART NO.*	SIZE	DESCRIPTION
1	Injector Pump Gasket	**FP-R125066**		Gear cover
4	Fuel Injector Nozzle	**FP-AR89564**		Injector nozzle code 1602, 1603
4	Fuel Injector Seal	**FP-R79605**		Fuel line connection; Nozzle codes 1602, 1603, 1617, 1623, 1641, 1645, 1646; Nozzle marked 27333; 9.270MM X 13.600MM X 5.080MM
12	Washer	**FP-T20055**		Pump code 1602
4	Fuel Injector Nut	**FP-R79604**		w/Injector marked 22043, 22203, 27333; From Ser. No. 410,664
2	Clamp	**FP-R34766**		Pump code 3701
8	Washer Type Seal	**FP-R51936**		Leak-off & return line seals; Nozzle codes 1602, 1603, 1617, 1619, 1623, 1624, 1641, 1645, 1646; w/Nozzle marked 22043, 27333
4	Washer Type Seal	**FP-R48000**		Lower; w/Nozzle codes 1602, 1603, 1617, 1623, 1641, 1645, 1646
4	Washer Type Seal	**FP-R60746**		Upper; Nozzle codes 1602, 1603, 1617, 1623, 1641, 1645, 1646

QTY	FUEL FILTERS & PUMP	*PART NO.*	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	**FP-RE42211**		Transfer pump
1	Injector Pump Mount Gasket	**FP-R97354**		w/Roto-Diesel fuel pump
1	Fuel Transfer Pump Gasket	**FP-R97350**		

COOLING SYSTEM

QTY	WATER PUMP	*PART NO.*	SIZE	DESCRIPTION
1	Water Pump Impeller	**FP-R47191**		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	**FP-R94419**		Pump codes 2004, 2021; w/Pump housing marked R73604, R100871, R111028
1	Water Pump Impeller	**FP-R94419**		Pump codes 2005, 2022; w/Pump housing marked R55164
1	Water Pump Repair/Rebuild Kit	**FP-944840979**		w/Pump housing marked R52009
1	Water Pump Repair/Rebuild Kit	**FP-925740979**		w/Pump housing marked R56787, R62902
1	Water Pump Repair/Rebuild Kit	**FP-RE62661**		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	**FP-R55406**		w/Pump housing marked R55130
1	Water Pump Housing Gasket	**FP-R55405**		w/Pump housing marked R55164; Pump housing to cover; Pump code 2005
1	Water Pump Housing Gasket	**FP-R56809**		w/Pump housing marked R55164; Pump to block; Pump code 2004
1	Water Pump Housing Gasket	**FP-R97455**		w/Pump housing marked R55758, R73604, R100871, R111028
1	Oil Seal Kit	**FP-AR101549**		Water Pump; w/Pump housing marked R100871, R111028, R55164, R55758, R73604
1	Water Pump Mounting Gasket	**FP-T20243**		w/Pump housing marked R55130, R55164, R55758, R73604, R100871, R111028
1	Shaft & Bearing Assembly	**FP-JD9257**		w/Pump housing marked R55164, R55758, R73604, R100871, R111028

QTY	THERMOSTAT	*PART NO.*	SIZE	DESCRIPTION
1	Thermostat	**FP-RE33705**		Thermostat code 2204; Housing code marked R60256; 180 Deg.
1	Thermostat Gasket	**FP-T20219**		Single thermostat cover codes 2101, 2102, 2204, 3901
1	Thermostat Cover Gasket	**FP-T20215**		Single thermostat cover codes 2101, 2102, 2204, 3901
2	O-Ring	**FP-R56461**		Thermostat housing tube seals

ENGINE BLOCK & PARTS

QTY	GASKETS	*PART NO.*	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	**FP-R97351**		Flywheel housing codes 1404, 1405, 1410, 1418, 1421, 1423, 1425
1	Oil Pan Gasket	**FP-R119360**		w/Sheet metal pan; Oil pan codes 1901, 1902, 1903; w/Cast iron oil pan
1	Oil Pan Gasket	**FP-R97342**		Oil pan code 1908; Deep sump; w/Stamped Steel Pan
1	Block to End Plate Front Gskt	**FP-R131794**		Front plate codes 3601, 3602

QTY	GASKET SETS	*PART NO.*	SIZE	DESCRIPTION
1	In-Frame Gasket Set	**FP-PG219S**		
1	Complete Overhaul Gasket Set	**FP-RE38857**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE38857WS**		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.
1	Kit Gasket Set	**260-1392**		Compl.; Rear main brg. seal incl.; Wear sleeve incl.

QTY	CAM BEARINGS	*PART NO.*	SIZE	DESCRIPTION
6	Cam Brg.	**FP-R91708**		Cyl. block codes 4601, 4602; 2.0MM O/S OD; Balance shaft bushing

QTY	ENGINE BEARING MISC.	*PART NO.*	SIZE	DESCRIPTION
1	Bal. Shaft Set	**FP-R57160S**		
6	Balance Shaft Bearing	**FP-R57160**		

(continued on next page)

8 *Industrial Applications* **4239D Eng.**
(cont.) 3.9L 239 OHV Diesel L4 (Standard), 4.1875" Bore

ENGINE BLOCK & PARTS (cont.)

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Washer	**FP-R105714**		Oil cooler; Modine Oil Cooler codes 5904, 5906, 5907; To Ser. No. 794,193
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; Cooler code 5906; Water pump codes 2004, 2021; From Ser. No. 498,386 to Ser. No. 794,193; 2.700" X 3.000" X .180"
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; Cooler codes 5904, 5906; Water pump codes 2004, 2021; From Ser. No. 794,194; 2.700" X 3.000" X .180"
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; Cooler codes 5905, 5906; Water pump codes 2004, 2005; To Ser. No. 498,385; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE20585**		From Ser. No. 769,620
1	Crankshaft	**FP-AT18030**		To Ser. No. 769,619
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft codes 4701, 4702; Crankshaft marked R81959; From Ser. No. 769,620
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft codes 4701, 4702; Crankshaft marked T23517; To Ser. No. 769,619

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		
1	O-Ring	**FP-H35244**		Crankshaft pulley; Crankshaft, Bearing codes 4701, 4702

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		Crankshaft, Bearing codes 4701, 4702; Flywheel housing codes 1403, 1404, 1405, 1410, 1421, 1425, 1432

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3004**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300410**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300420**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300430**	*30*	w/Flanged thrust brg.
4	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
4	Thrust Washer	**FP-R78598**	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	**FP-RE55343**		Pump code 5001; w/Pump housing marked R54615
1	O-Ring	**FP-R61871**		Oil pump inlet; Pump codes 5001, 5002
1	O-Ring	**FP-R74354**		Oil pump outlet tube; Pump codes 5001, 5002
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1200, 1299; No filler neck
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1201, 1203
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1202, 1206; To Ser. No. 703,963

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	**FP-R116281**		
4	Liner w/Sealing Rings	**FP-RE500023**		
4	Cylinder Kit Complete	**FP-RE30250**	*STD*	w/Con. Rod marked R51727, R80034
4	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		
4	Sealing Ring, Liner	**FP-R48767**		Rectangle; Top
4	Sealing Ring	**FP-SLR2520**		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	**FP-RE19282**		
4	Piston Kit w/Pin & Retainers	**FP-RE19282WP**		
4	Pin	**FP-R125754**		1.38" pin dia.
8	Piston Pin Retainer	**FP-M41029**		For 1.38" pin dia.
4	Pin Bushing	**FP-R55647**		w/Con. Rod marked R51727, R80032, R80034; 1.3765" ID, 1.500" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	**FP-R80033**		w/Con. Rod marked R80032, R80034, R81410, R105011, R113612; Torque-To-Yield bolt; Replacement recommended
8	Con. Rod Bolt	**FP-R74194**		w/Con. Rod marked T20007, R51727, R58979; Torque-To-Yield bolt; Replacement recommended
4	Rod Pair	**FP-RE27348**	*STD*	

(continued on next page)

Industrial Applications **4239D Eng.** **8**
3.9L 239 OHV Diesel L4 (Standard), 4.1875" Bore **(cont.)**

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS. (cont.)	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	**FP-RE27349**	*10*	
4	Rod Pair	**FP-RE27358**	*20*	
4	Rod Pair	**FP-RE27364**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	**FP-RE507852**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	**FP-RE66820**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-239DIFK**		w/Con. Rod marked R51727, R80034
1	Complete Overhaul Kit	**FP-239DOHK**		w/Con. Rod marked R51727, R80032, R80034; Incl. front & rear seals; Crankshaft codes 4701, 4702; Crankshaft marked R81959 from Ser. No. 769,620; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-239DOHK**		w/Con. Rod marked R51727, R80032, R80034; Incl. front & rear seals; Crankshaft codes 4701, 4702; Crankshaft marked T23517 to Ser. No. 769,619; Incl. Torque-To-Yield con. rod bolts

Industrial Applications **4239T Eng.** **9**
3.9L 239 OHV Turbo-Diesel L4 (Standard), 4.1875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R73521**		w/Stamped Steel Cover; Rocker arm cover codes 1101, 1102, 1106
1	Head Gasket	**FP-R125863**		
1	Head Set	**FP-RE38851**		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	**FP-R83071**	*STD*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3720" Stem Dia., 5.1660" O.A.L.
4	Intake	**FP-R89223**	*3*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3750" Stem Dia., 5.1660" O.A.L.
4	Intake	**FP-R89224**	*15*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3870" Stem Dia., 5.1660" O.A.L.
4	Intake	**FP-R79623**	*STD*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Intake	**FP-R79628**	*3*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Intake	**FP-R79629**	*15*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Intake	**FP-R79630**	*30*	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79624**	*STD*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79625**	*3*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79626**	*15*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79627**	*30*	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
16	Keeper	**FP-T20077**		Valve, seat, spring & retainer code 5102; 1 groove; Square cut key groove; Hardened
16	Keeper	**FP-41339**		1 groove; Square cut key groove
16	Keeper, Bulk	**VK-138B**		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	**FP-R51734**	*STD*	
4	Int.	**FP-R73064**	*STD*	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-R26125**		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	**FP-RE11410**		Exh. & Int.; Valve, seat, spring & retainer code 5102
1	Bushing	**FP-T26321**		Lower
1	Bushing	**FP-T20034**		Upper
1	Oil Filler Cap Gasket	**FP-T20328**		Oil filler neck code 1299; No filler neck
1	Oil Filler Cap Gasket	**FP-T20328**		Oil filler neck codes 1201, 1202, 1203, 1206
1	Oil Filler Cap Gasket	**FP-T20328**		Rocker arm cover codes 1102, 1104; Stamped steel

(continued on next page)

9 (cont.) *Industrial Applications* **4239T Eng.**
3.9L 239 OHV Turbo-Diesel L4 (Standard), 4.1875" Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3001, 3013, 3017, 3018

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Motorola No. A12NJD453; Code 3102; 12 Volt, 35 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. 70D44110C01; 12 Volt, 55 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. 70D44120C01; Code 3101; 12 Volt, 35 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. 8TA2009S; Code 3104; 12 Volt, 55 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola No. 70D42076T02; Code 3104; 12 Volt, 65 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola No. 70D42076T02; Codes 3101, 3108, 3109, 3116, 3129, 3130; 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
4	Exhaust Manifold Gasket	FP-R90658		
1	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
4	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1602, 1603, 1606, 1623, 1635, 1636, 1641, 1643, 1650, 1651; From Ser. No. 410,664; 9.270MM X 13.600MM X 5.080MM
4	Fuel Injector Seal	FP-R92352		Upper packing; w/Injector nozzle codes 1601, 1603
4	Fuel Injector Nut	FP-R79604		w/Injector marked 22265, 26992, 26993, 27337; From Ser. No. 410,664
2	Clamp	FP-R34766		Pump code 3701
8	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1602, 1603, 1606, 1619, 1623, 1624, 1635, 1636, 1641, 1643, 1650, 1651; w/Nozzle marked 26992, 27337
4	Washer Type Seal	FP-R48000		Lower; w/Nozzle codes 1602, 1603, 1606, 1623, 1635, 1636, 1641, 1643, 1650, 1651
4	Washer Type Seal	FP-R60746		Upper; Nozzle codes 1602, 1603, 1606, 1623, 1635, 1636, 1641, 1643, 1650, 1651

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Transfer pump
1	Injector Pump Mount Gasket	FP-R97354		w/Roto-Diesel fuel pump
1	Fuel Transfer Pump Gasket	FP-R97350		

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		
1	Turbocharger Mounting Gasket	FP-R89879		Exc. Low profile turbocharger
1	Turbocharger Oil Supply Gskt.	FP-R97348		Turbo code 6501

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	FP-R56812		w/Pump housing marked R70612, R90783, R90785
1	Water Pump Impeller	FP-R94419		Pump codes 2005, 2022; w/Pump housing marked R55164
1	Water Pump Impeller	FP-R94419		Pump codes 2021, 2026; w/Pump housing marked R73604, R100871, R111028
1	Water Pump Repair/Rebuild Kit	FP-864340979		w/Pump housing marked R51661, R73606, R73724, R79171
1	Water Pump Repair/Rebuild Kit	FP-944840979		w/Pump housing marked R52009
1	Water Pump Repair/Rebuild Kit	FP-925740979		w/Pump housing marked R56787, R62902
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	FP-R55406		w/Pump housing marked R55130; Pump cover to body

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COOLING SYSTEM (cont.)

QTY	WATER PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Water Pump Housing Gasket	**FP-R55405**		w/Pump housing marked R55164; Pump cover to body
1	Water Pump Housing Gasket	**FP-R56809**		w/Pump housing marked R56070, R56813, R70612, R90783
1	Water Pump Housing Gasket	**FP-R97455**		w/Pump housing marked R73604, R100871, R111028
1	Water Pump Housing Gasket	**FP-R56809**		w/Pump housing marked R85023, R99251
1	Oil Seal Kit	**FP-AR101549**		Water Pump; w/Pump housing marked R55164, R90783
1	Water Pump Mounting Gasket	**FP-T20243**		w/Pump housing marked R55130, R55164, R56070, R56813, R70612, R73604, R85023, R90783, R90785, R99251, R100871, R111028
1	Shaft & Bearing Assembly	**FP-JD9257**		w/Pump housing marked R55164, R55758, R73604, R100871, R111028
1	Shaft & Bearing Assembly	**FP-JD8643**		w/Pump housing marked R70612, R90783, R90785

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	**FP-AR48675**		Thermostat code 2204; Thermostat cover code 2102 Vertical, 2108 Horizontal; Housing code 3901; 180 Deg.
1	Thermostat	**FP-RE33705**		Thermostat code 2208; Housing marked R60256; 180 Deg.
1	Thermostat Gasket	**FP-T20219**		Single thermostat cover codes 2101, 2109, 2208, 3906
1	Thermostat Cover Gasket	**FP-T20215**		Single thermostat cover codes 2101, 2109, 2208, 3906; w/housing marked R60256, T20218
1	Therm. Hsg. - Water Mfld. Gsk	**FP-R54641**		Thermostat housing to cyl. head
2	O-Ring	**FP-R56461**		Thermostat housing tube seals; Housing code 3901

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Line Gasket	**FP-R97346**		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	**FP-R97351**		Flywheel housing codes 1404, 1405, 1410, 1418, 1421, 1423, 1425
1	Oil Pan Gasket	**FP-R97342**		w/Stamped Steel Pan
1	Block to End Plate Front Gskt	**FP-R131794**		Front plate codes 3601, 3602

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	**FP-PG219CS**		Wear sleeve incl.
1	In-Frame Gasket Set	**FP-PG219S**		
1	Complete Overhaul Gasket Set	**FP-RE38857**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE38857WS**		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.
1	Kit Gasket Set	**260-1392**		Compl.; Rear main brg. seal incl.; Wear sleeve incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Cam Brg.	**FP-R91708**		Cyl. block codes 4601, 4602; 2.0MM O/S OD; Balance shaft bushing

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	**FP-R57160S**		
6	Balance Shaft Bearing	**FP-R57160**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket Set	**FP-4039A**		
1	Oil Cooler	**FP-RE61767**		RePower Engs. DD14964, DD14965; w/Cooler codes 5904, 5906, 5908, 5914, 5916, 5995; w/6 plates; From Ser. No. 185,224
1	Washer	**FP-R105714**		Oil cooler; w/10 plate cooler; To Ser. No. 795,106
1	Washer	**FP-R105714**		Oil cooler; Oil Cooler codes 5904, 5905, 5906, 5907; To Ser. No. 794,193
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; Cooler code 5906; Water pump code 2026; From Ser. No. 794,194; 2.700" X 3.000" X .180"
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; Cooler code 5907; Water pump codes 2004, 2023; 2.700" X 3.000" X .180"
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; Cooler codes 5904, 5905, 5906; Water pump codes 2004, 2005; To Ser. No. 498,385; 2.700" X 3.000" X .180"
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; Cooler codes 5904, 5906; Water pump codes 2023, 2026; From Ser. No. 498,386 Ser. No. to 794,193; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE20585**		From Ser. No. 769,620
1	Crankshaft	**FP-AT18030**		To Ser. No. 769,619
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft codes 4701, 4702; Crankshaft marked R81959; From Ser. No. 769,620
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft codes 4701, 4702; Crankshaft marked T23517; To Ser. No. 769,619

(continued on next page)

9 *Industrial Applications* **4239T Eng.**
(cont.) 3.9L 239 OHV Turbo-Diesel L4 (Standard), 4.1875" Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	FP-AR67942		
1	O-Ring	FP-H35244		Crankshaft pulley; Pulley codes 1301, 1307, 1315; Crankshaft, Bearing codes 4701, 4702

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		Crankshaft, Bearing codes 4701, 4702; Flywheel housing codes 1403, 1404, 1405, 1410, 1421, 1425, 1432

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK3004	STD	w/Flanged thrust brg.
1	Main Set	FP-MBK300410	10	w/Flanged thrust brg.
1	Main Set	FP-MBK300420	20	w/Flanged thrust brg.
1	Main Set	FP-MBK300430	30	w/Flanged thrust brg.
4	Plain Main Brg.	FP-RE27352	STD	w/Flangeless thrust brg.
4	Plain Main Brg.	FP-RE27353	10	w/Flangeless thrust brg.
4	Plain Main Brg.	FP-RE27360	20	w/Flangeless thrust brg.
4	Plain Main Brg.	FP-RE27368	30	w/Flangeless thrust brg.
1	Flanged Main Brg.	FP-RE521350	STD	
1	Flanged Main Brg.	FP-RE526754	10	
1	Flanged Main Brg.	FP-RE527235	20	
1	Flanged Main Brg.	FP-RE527236	30	
4	Thrust Washer	FP-R78598	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R61871		Oil pump inlet; Pump codes 5001, 5007; w/Pump housing marked R54615, R54629
1	O-Ring	FP-R74354		Oil pump outlet tube; Pump codes 5001, 5007; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck codes 1201, 1203, 1299
1	Oil Filler Inlet Gasket	FP-R97352		Oil filler neck codes 1202, 1206; To Ser. No. 703,963
1	Oil Pump Seal Ring	FP-R79563		Oil pump outlet adapter; Pump code 5001

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	FP-R116281		
4	Liner w/Sealing Rings	FP-RE500023		
4	Cylinder Kit Complete	FP-RE33115		w/Con. Rod marked R58979, R80032, R113612
4	Cyl. Liner Sealing Ring Kit	FP-AR65507		
4	Sealing Ring, Liner	FP-R48767		Rectangle; Top
4	Sealing Ring, Liner	FP-R26121		Round; Middle
4	Sealing Ring	FP-SLR2520		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-RE48368		
4	Piston Kit w/Pin & Retainers	FP-RE48368WP		
4	Pin	FP-R124230		1.62" pin dia.
8	Piston Pin Retainer	FP-R54114		For 1.62" pin dia.
4	Pin Bushing	FP-R57451		w/Con. Rod marked R56187, R58979, R80032, R113612; Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	FP-R80033		w/Con. Rod marked R80032, R113612; Torque-To-Yield bolt; Replacement recommended
8	Con. Rod Bolt	FP-R74194		w/Con. Rod marked T20007, R51727, R58979; Torque-To-Yield bolt; Replacement recommended
4	Rod Pair	FP-RE27348	STD	
4	Rod Pair	FP-RE27349	10	
4	Rod Pair	FP-RE27358	20	
4	Rod Pair	FP-RE27364	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE507852	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66820	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-239TIFK		w/Con. Rod marked R58979, R80032, R113612; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-239TOHK		w/Con. Rod marked R58979, R80032, R113612; Pin dia. 1.62"; Crankshaft codes 4701, 4702; Crankshaft marked R81959 from Ser. No. 769,620; Incl. front & rear seals; Incl. Torque-To-Yield con. rod bolts

(continued on next page)

Industrial Applications **4239T Eng.** **9**
3.9L 239 OHV Turbo-Diesel L4 (Standard), 4.1875" Bore **(cont.)**

KITS (cont.)

QTY	OVERHAUL KIT (cont.)	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	**FP-239TOHK**		w/Con. Rod marked R58979, R80032, R113612; Pin dia. 1.62"; Crankshaft codes 4701, 4702; Crankshaft marked T23517 to Ser. No. 769,619; Incl. front & rear seals; Incl. Torque-To-Yield con. rod bolts

Industrial Applications **4039D Eng.** **10**
3.9L 239 (3917cc) OHV Diesel L4 (Litre Engine), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R73521**		w/Stamped Steel Cover; Rocker arm cover codes 1101, 1102, 1106
1	Head Gasket	**FP-R125863**		From Ser. No. 300,000
1	Head Set	**FP-RE38851**		From Ser. No. 300,000

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	**FP-R98062**	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
4	Intake	**FP-R97490**	*15*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
4	Exhaust	**FP-R90692**	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
4	Exhaust	**FP-R97492**	*15*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
16	Keeper	**FP-R91889**		Exh. & Int.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	**FP-R85687**	*STD*	
4	Int.	**FP-R98335**		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
4	Int.	**FP-R98063**	*STD*	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-R26125**		Exh. & Int.; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	**FP-RE60005**		Exh. & Int.
1	Oil Filler Cap Gasket	**FP-T20328**		Oil filler neck codes 1101, 1104, 1201, 1202, 1203, 1206
1	Oil Filler Cap Gasket	**FP-R80135**		Oil filler neck codes 1204, 1205, 1207; L.H. Auxiliary drive

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	**FP-RE31617**		Exh. & Int.; From Ser. No. 300,000; Positive type
8	Valve Stem Seal	**FP-R87627**		Exh. & Int.; O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R56463**		Rocker cover breather tube; Breather tube codes 2902, 2904, 2905, 2909, 2910, 2912, 2999

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	**FP-R53108**		3-Hole mount; Starting motor codes 3001, 3002, 3007, 3015, 3017, 3019

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	**FP-JD9449**		Front; Delco-Remy components; Codes 3114, 3115, 3116; 78 amp alternator
2	Ball Brg.	**FP-JD9449**		Front & Rear; Motorola components; Codes 3101, 3116, 3129; 12 Volt, 65 amp alternator
2	Ball Brg.	**FP-JD9449**		Front & Rear; Motorola components; Codes 3117, 3118, 3119, 3120; 24 Volt, 45 amp alternator
2	Ball Brg.	**FP-JD9449**		Front & Rear; Motorola No. 70D42076T02; Codes 3108, 3109, 3130; 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
4	Exhaust Manifold Gasket	**FP-R90658**		Exh. manifold codes 2801, 2802, 2803, 2822
1	Air Intake Gasket	**FP-R81275**		Int. manifold codes 1701, 1703, 1707, 1709

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	**FP-R97454**		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	**FP-T20073**		

(continued on next page)

10 *Industrial Applications* 4039D Eng.
(cont.) 3.9L 239 (3917cc) OHV Diesel L4 (Litre Engine), 106mm Bore

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
4	Fuel Injector Nozzle	FP-RE36935		w/Injector marked 28480
4	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1602, 1603, 1604, 1613, 1615, 1619, 1620, 1624; Nozzle marked 28480; 9.270MM X 13.600MM X 5.080MM
4	Fuel Injector Seal	FP-R79605		Fuel line connection; RePower Engs.; Nozzle code 1695; 9.270MM X 13.600MM X 5.080MM
4	Fuel Injector Nut	FP-R79604		w/Injector marked 28480
2	Clamp	FP-R34766		Pump codes 3701, 3702, 3707, 3712
8	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1601, 1602, 1603, 1604, 1609, 1613, 1615, 1619, 1620, 1621, 1624, 1646
8	Washer Type Seal	FP-R51936		RePower Engs.; Leak-off & return line seals; Nozzle code 1695
4	Washer Type Seal	FP-R48000		Lower; w/Oversize injector bore; w/Nozzle codes 1602, 1603, 1613, 1615, 1619, 1620, 1623, 1624
4	Washer Type Seal	FP-R60746		Upper; Nozzle codes 1602, 1603, 1604, 1613, 1615, 1619, 1620, 1624

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Transfer pump
1	Injector Pump Mount Gasket	FP-R97354		w/Roto-Diesel fuel pump
1	O-Ring	FP-R26286		Fuel inj. pump codes 1602, 1603, 1609, 1614, 1618, 1623, 1624, 1643, 1646, 1664; Fuel inlet fitting seal
1	Fuel Transfer Pump Gasket	FP-R97350		Pump code 3799; Cover gskt.

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	FP-R56812		w/Pump housing marked R90783
1	Water Pump Impeller	FP-R94419		Pump code 2004; w/Pump housing marked R100871, R111028
1	Water Pump Impeller	FP-R94419		Pump code 2021; w/Pump housing marked R73604, R100871, R111028
1	Water Pump Impeller	FP-R94419		Pump code 2022; w/Pump housing marked R55164
1	Water Pump Repair/Rebuild Kit	FP-864340979		w/Pump housing marked R51661, R73606, R73724, R79171
1	Water Pump Repair/Rebuild Kit	FP-944840979		w/Pump housing marked R52009
1	Water Pump Repair/Rebuild Kit	FP-RE62658		w/Pump housing marked R55164, R73604
1	Water Pump Repair/Rebuild Kit	FP-925740979		w/Pump housing marked R56787, R62902
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	FP-R55405		w/Pump housing marked R55164
1	Water Pump Housing Gasket	FP-R97455		w/Pump housing marked R73604, R100871, R111028
1	Water Pump Housing Gasket	FP-R56809		w/Pump housing marked R90783
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked R55164, R90783
1	Water Pump Mounting Gasket	FP-T20243		w/H/D Pump housing marked R100812, R127918
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R55164, R67188, R73604, R90783, R90784, R100871, R104648, R111028
1	O-Ring	FP-U13639		Coolant heater codes 2601, 2602; Adapter seal; 1.475" X .118"
1	Shaft & Bearing Assembly	FP-JD9257		w/Pump housing marked R55164, R73604, R100871, R111028
1	Shaft & Bearing Assembly	FP-JD8643		w/Pump housing marked R90783

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat codes 2201, 2205, 2207; 180 Deg.
1	Thermostat	FP-RE33705		Thermostat housing codes 2101, 2102, 2204, 2207; Thermostat code 2208; 180 Deg.
2	Thermostat	FP-RE33705		Thermostat housing codes 2105, 2108, 3904; Thermostat code 2204; 180 Deg.
1	Thermostat Gasket	FP-T20219		
1	Thermostat Cover Gasket	FP-T20215		
1	Therm. Hsg. - Water Mfld. Gsk	FP-R54641		Thermostat housing to cyl. head
2	O-Ring	FP-R56461		Thermostat housing tube seals; Housing code 3905; Water pump codes 2004, 2023

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		Flywheel housing codes 1403, 1404, 1405, 1406, 1407, 1410, 1411, 1421, 1422, 1425, 1432
1	Oil Pan Gasket	FP-R119360		w/Sheet metal pan; Oil pan code 1902; From Ser. No. 103,251; w/Cast iron oil pan
1	Oil Pan Gasket	FP-R119360		w/Sheet metal pan; Oil pan codes 1901, 1903, 1906; w/Cast iron oil pan
1	Oil Pan Gasket	FP-R97342		Oil pan codes 1904, 1905, 1910, 1913, 1919, 1932; w/Stamped Steel Pan
1	Block to End Plate Front Gskt	FP-R131794		Front plate codes 3601, 3602, 3604, 3695; R.H. side gear drive

(continued on next page)

ENGINE BLOCK & PARTS (cont.)

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	**FP-PG219S**		
1	Complete Overhaul Gasket Set	**FP-RE38857**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE38857WS**		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R91708**		Cyl. block codes 4601, 4602, 4623; 2.0MM O/S OD; Balance shaft bushing
1	Cam Brg.	**FP-R119874**		R.H. Side gear drive

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	**FP-R57160S**		
6	Balance Shaft Bearing	**FP-R57160**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	**FP-RE61767**		RePower Engs. DD14964, DD14965; w/Cooler codes 5904, 5906, 5908, 5914, 5916, 5995; w/6 plates; From Ser. No. 185,224
1	Washer	**FP-R105714**		Oil cooler; Oil Cooler codes 5901, 5904, 5905, 5906, 5907
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; w/Behr cooler codes 5904, 5906, 5908, 5914, 5916; To Ser. No. 185,223; 2.700" X 3.000" X .180"
1	Rect. or Square Seal	**FP-R70956**		Cooler housing; RePower Engs. DD14964, DD14965, DD14966, DD14967; Oil cooler code 5995; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE20585**		
1	Oil Seal Kit	**FP-SK67942**		RePower Engs. DD14964, DD14966; Crankshaft codes 4701, 4702, 4707, 4710; Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		
1	O-Ring	**FP-H35244**		Crankshaft pulley; Crankshaft, Bearing codes 4701, 4702, 4708, 4710
1	O-Ring	**FP-H35244**		Crankshaft pulley; RePower Engs. DD14965, DD14967; Crankshaft, Bearing codes 4701, 4702, 4708, 4710

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		Crankshaft, Bearing codes 4701, 4703; Flywheel housing codes 1403, 1404, 1405, 1406, 1407, 1410, 1411, 1421, 1422, 1425, 1432

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3004**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300410**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300420**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300430**	*30*	w/Flanged thrust brg.
4	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
3	Thrust Washer	**FP-R78598**	*STD*	w/Thrust washer; Crank marked R120009, R121018; Note: Applications may use three or four thrust washers

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Pump Repair Kit	**FP-RE55343**		Pump codes 5001, 5004; w/Pump housing marked R54615; From Ser. No. 427,376
1	O-Ring	**FP-R61871**		Oil pump inlet; Pump codes 5001, 5002, 5005, 5006, 5007; w/Pump housing marked R54615; To Ser. No. 427,375
1	O-Ring	**FP-R74354**		Oil pump outlet tube; Pump codes 5001, 5002; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1101, 1104, 1200, 1201, 1203, 1297, 1299

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	**FP-R116281**		
4	Liner w/Sealing Rings	**FP-RE500023**		
4	Cylinder Kit Complete	**FP-RE30250**	*STD*	w/Con. Rod marked R51727, R80034
4	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		
4	Sealing Ring, Liner	**FP-R48767**		Rectangle; Top

(continued on next page)

10 (cont.) *Industrial Applications* 4039D Eng.
3.9L 239 (3917cc) OHV Diesel L4 (Litre Engine), 106mm Bore

CYLINDER COMPONENTS (cont.)

QTY	LINERS (cont.)	PART NO.	SIZE	DESCRIPTION
4	Sealing Ring	FP-SLR2520		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-RE19282		
4	Piston Kit w/Pin & Retainers	FP-RE19282WP		
4	Pin	FP-R125754		1.38" pin dia.
8	Piston Pin Retainer	FP-M41029		For 1.38" pin dia.
4	Pin Bushing	FP-R55647		w/Con. Rod marked R51727, R80034; 1.3765" ID, 1.500" OD, 1.570" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	FP-R80033		w/Con. Rod marked R80032, R80034, R81410, R105011, R113612; Torque-To-Yield bolt; Replacement recommended
4	Rod Pair	FP-AR97517	STD	w/Con. Rod marked R56187, R116851
4	Rod Pair	FP-AR97653	10	w/Con. Rod marked R56187, R116851
4	Rod Pair	FP-AR97654	20	w/Con. Rod marked R56187, R116851
4	Rod Pair	FP-AR97655	30	w/Con. Rod marked R56187, R116851
4	Rod Pair	FP-RE27348	STD	Crankshaft codes 4702, 4708, 4710; Con. Rod codes 4801, 4802
4	Rod Pair	FP-RE27349	10	Crankshaft codes 4702, 4708, 4710; Con. Rod codes 4801, 4802
4	Rod Pair	FP-RE27358	20	Crankshaft codes 4702, 4708, 4710; Con. Rod codes 4801, 4802
4	Rod Pair	FP-RE27364	30	Crankshaft codes 4702, 4708, 4710; Con. Rod codes 4801, 4802
4	Rod Pair	FP-RE27348	STD	RePower Engs. DD14964, DD14965; w/Con. Rod marked R80034
4	Rod Pair	FP-RE27349	10	RePower Engs. DD14964, DD14965; w/Con. Rod marked R80034
4	Rod Pair	FP-RE27358	20	RePower Engs. DD14964, DD14965; w/Con. Rod marked R80034
4	Rod Pair	FP-RE27364	30	RePower Engs. DD14964, DD14965; w/Con. Rod marked R80034

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE507852	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66820	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-239DIFK		w/Con. Rod marked R80034; Incl. front & rear seals; Crankshaft codes 4702, 4708, 4710; Con. Rod codes 4801, 4802
1	Complete Overhaul Kit	FP-239DOHK		w/Con. Rod marked R80034; Incl. front & rear seals; Crankshaft codes 4702, 4708, 4710; Con. Rod codes 4801, 4802; Incl. Torque-To-Yield con. rod bolts

11 *Industrial Applications* 4039T Eng.
3.9L 239 (3917cc) OHV Turbo-Diesel L4 (Litre Engine), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R73521		w/Stamped Steel Cover; Rocker arm cover codes 1101, 1102, 1104, 1106, 1110, 1114
1	Head Gasket	FP-R125863		From Ser. No. 300,000
1	Head Set	FP-RE38851		From Ser. No. 300,000

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R98062	STD	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
4	Intake	FP-R97490	15	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
4	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
4	Exhaust	FP-R97492	15	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
16	Keeper	FP-R91889		Exh. & Int.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	FP-R85687	STD	
4	Int.	FP-R98335		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
4	Int.	FP-R98063	STD	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-R26125		Exh. & Int.; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	FP-RE60005		Exh. & Int.

(continued on next page)

Industrial Applications **4039T Eng.** **11**
3.9L 239 (3917cc) OHV Turbo-Diesel L4 (Litre Engine), 106mm Bore **(cont.)**

CYL. HEAD & PARTS (cont.)

QTY	VALVE MISC. (cont.)	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	FP-T20328		Oil filler neck codes 1101, 1104, 1201, 1202, 1203, 1206
1	Oil Filler Cap Gasket	FP-R80135		Oil filler neck codes 1204, 1205, 1207; L.H. Auxiliary drive
QTY	**VALVE SEAL**	***PART NO.***	**SIZE**	**DESCRIPTION**
8	Valve Stem Seal	FP-RE31617		Exh. & Int.; From Ser. No. 300,000; Positive type
8	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type
QTY	**ROCKER PARTS**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube codes 2902, 2904, 2905, 2909, 2910, 2912, 2999

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3001, 3002, 3007, 3015, 3017, 3019
QTY	**ALTERNATOR**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Ball Brg.	FP-JD9449		Front; Delco-Remy components; Codes 3114, 3115, 3116; 78 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola components; Codes 3101, 3116, 3129; 12 Volt, 65 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola components; Codes 3117, 3118, 3119, 3120; 24 Volt, 45 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola No. 70D42076T02; Codes 3108, 3109, 3130; 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
4	Exhaust Manifold Gasket	FP-R90658		Exh. manifold codes 2803, 2806, 2819, 2822
1	Air Intake Gasket	FP-R81275		Int. manifold codes 1713, 1714, 1718

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover
1	Timing Gear Cover Gasket	FP-R97454		Front cover
QTY	**CAMSHAFT/LIFTER**	***PART NO.***	**SIZE**	**DESCRIPTION**
8	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
4	Fuel Injector Nozzle	FP-RE36939		w/Injector marked 28484
4	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1602, 1603, 1604, 1613, 1615, 1619; Nozzle marked 28484; 9.270MM X 13.600MM X 5.080MM
4	Fuel Injector Seal	FP-R79605		Fuel line connection; RePower Engs.; Nozzle code 1695; 9.270MM X 13.600MM X 5.080MM
4	Fuel Injector Nut	FP-R79604		w/Injector marked 28484
2	Clamp	FP-R34766		Pump codes 3701, 3702, 3707, 3712
8	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1601, 1602, 1603, 1604, 1609, 1613, 1615, 1619, 1620, 1621, 1651
8	Washer Type Seal	FP-R51936		RePower Engs.; Leak-off & return line seals; Nozzle code 1695
4	Washer Type Seal	FP-R48000		Lower; w/Nozzle code 1604
QTY	**FUEL FILTERS & PUMP**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Mechanical Fuel Pump	FP-RE42211		Pump codes 3703, 3704, 3706; Transfer pump
1	O-Ring	FP-R26286		Fuel inj. pump codes 1602, 1603, 1609, 1614, 1618, 1623, 1624, 1643, 1646, 1664; Fuel inlet fitting seal
1	Fuel Transfer Pump Gasket	FP-R97350		Pump code 3799; Cover gskt.
QTY	**TURBOCHARGER**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Turbocharger Oil Drain Gasket	FP-R105346		Turbo codes 6501, 6506, 6512, 6513
1	Turbocharger Mounting Gasket	FP-R89879		
1	Turbocharger Oil Supply Gskt.	FP-R97348		Turbo code 6501

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	FP-R56812		w/Pump housing marked R90783
1	Water Pump Impeller	FP-R94419		Pump code 2021; w/Pump housing marked R73604, R100871, R111028
1	Water Pump Impeller	FP-R94419		Pump code 2022; w/Pump housing marked R55164

(continued on next page)

11 *Industrial Applications* 4039T Eng.
(cont.) 3.9L 239 (3917cc) OHV Turbo-Diesel L4 (Litre Engine), 106mm Bore

COOLING SYSTEM (cont.)

QTY	WATER PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R94419		Pump code 2026; w/Pump housing marked R100871, R111028
1	Water Pump Repair/Rebuild Kit	FP-864340979		w/Pump housing marked R51661, R73606, R73724, R79171
1	Water Pump Repair/Rebuild Kit	FP-944840979		w/Pump housing marked R52009
1	Water Pump Repair/Rebuild Kit	FP-RE62658		w/Pump housing marked R55164, R73604
1	Water Pump Repair/Rebuild Kit	FP-925740979		w/Pump housing marked R56787, R62902
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	FP-R55405		w/Pump housing marked R55164
1	Water Pump Housing Gasket	FP-R97455		w/Pump housing marked R73604, R100871, R111028
1	Water Pump Housing Gasket	FP-R56809		w/Pump housing marked R90783
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked R55164, R90783
1	Water Pump Mounting Gasket	FP-T20243		w/H/D Pump housing marked R100812, R127918
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R55164, R73604, R90783, R90784, R100871, R104648, R111028; w/Cast iron impeller marked T30897
1	O-Ring	FP-U13639		Coolant heater codes 2601, 2602; Adapter seal; 1.475" X .118"
1	Shaft & Bearing Assembly	FP-JD9257		w/Pump housing marked R55164, R73604, R100871, R111028
1	Shaft & Bearing Assembly	FP-JD8643		w/Pump housing marked R90783

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-RE33705		Thermostat code 2208; Thermostat Housing codes 2204, 2207; 180 Deg.
2	Thermostat	FP-AR48675		Thermostat codes 2201, 2204, 2205, 2207; Thermostat Housing codes 3901, 3904; 180 Deg.
1	Thermostat Gasket	FP-T20219		Single thermostat cover codes 2101, 2102, 2204, 3901
1	Thermostat Cover Gasket	FP-T20215		
1	Thermostat Cover Gasket	FP-R54638		Thermostat housing codes 3901, 3904; Thermostat cover codes 2102, 2108; w/Two thermostats
1	Therm. Hsg. - Water Mfld. Gsk	FP-R54641		Thermostat housing to cyl. head
2	O-Ring	FP-R56461		Thermostat housing tube seals; Housing code 3901

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Line Gasket	FP-R97346		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		Flywheel housing codes 1403, 1404, 1405, 1406, 1407, 1410, 1411, 1421, 1422, 1425, 1432
1	Oil Pan Gasket	FP-R119360		w/Sheet metal pan; Oil pan codes 1901, 1903, 1906; w/Cast iron oil pan
1	Oil Pan Gasket	FP-R97342		Oil pan codes 1904, 1905, 1908, 1910, 1913, 1919, 1932; w/Stamped Steel Pan
1	Block to End Plate Front Gskt	FP-R131794		Front plate codes 3601, 3602, 3604, 3695; R.H. side gear drive

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG219S		
1	Complete Overhaul Gasket Set	FP-RE38857		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE38857WS		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R91708		Cyl. block codes 4601, 4602, 4623; 2.0MM O/S OD; Balance shaft bushing
1	Cam Brg.	FP-R119874		R.H. Side gear drive

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	FP-R57160S		
6	Balance Shaft Bearing	FP-R57160		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	FP-RE61767		RePower Engs. DD14964, DD14965; w/Cooler codes 5904, 5906, 5908, 5914, 5916, 5995; w/6 plates; From Ser. No. 185,224
1	Washer	FP-R105714		Oil cooler; Oil Cooler codes 5901, 5904, 5905, 5906, 5907
1	Rect. or Square Seal	FP-R70956		Cooler housing; w/Behr cooler codes 5904, 5906, 5908, 5914, 5916; To Ser. No. 185,223; 2.700" X 3.000" X .180"
1	Rect. or Square Seal	FP-R70956		Cooler housing; RePower Engs. DD14964, DD14965, DD14966, DD14967; Oil cooler code 5995; 2.700" X 3.000" X .180"

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-RE20585		

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CRANKSHAFT/OIL PUMP (cont.)

QTY	CRANKSHAFT (cont.)	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-SK67942**		RePower Engs. DD14964, DD14965, DD14966, DD14967; Crankshaft codes 4701, 4702, 4703, 4707, 4708, 4710; Incl. front & rear seals
QTY	**SEALS - FRONT CRANK**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Crankshaft Front Seal	**FP-AR67942**		
1	O-Ring	**FP-H35244**		Crankshaft pulley; Pulley codes 1301, 1307, 1315; Crankshaft, Bearing codes 4701, 4702
1	O-Ring	**FP-H35244**		Crankshaft pulley; RePower Engs. DD14965, DD14967; Pulley codes 1301, 1307, 1315; Crankshaft, Bearing codes 4701, 4702
QTY	**SEALS - REAR CRANK**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Crankshaft Rear Seal	**FP-RE24959**		Crankshaft, Bearing codes 4701, 4703; Flywheel housing codes 1403, 1404, 1405, 1406, 1407, 1410, 1411, 1421, 1422, 1425, 1432
QTY	**MAIN BEARINGS**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Main Set	**FP-MBK3004**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300410**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300420**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300430**	*30*	w/Flanged thrust brg.
4	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
3	Thrust Washer	**FP-R78598**	*STD*	w/Thrust washer; Crank marked R120009, R121018; Note: Applications may use three or four thrust washers
QTY	**OIL PUMP**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Pump Repair Kit	**FP-RE55343**		Pump codes 5001, 5004; w/Pump housing marked R54615; From Ser. No. 427,376
1	O-Ring	**FP-R61871**		Oil pump inlet; Pump codes 5001, 5005, 5006, 5007; w/Pump housing marked R54615
1	O-Ring	**FP-R61871**		Oil pump inlet; RePower Engs.; Pump codes 5002, 5008; w/Pump housing marked R54615
1	O-Ring	**FP-R74354**		Oil pump outlet tube; Pump codes 5001, 5002, 5005, 5006, 5007, 5008; w/Pump housing marked R54615
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1101, 1104, 1200, 1201, 1203, 1297, 1299

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	**FP-R116281**		
4	Liner w/Sealing Rings	**FP-RE500023**		
4	Cylinder Kit Complete	**FP-RE33115**		w/Con. Rod marked R58979, R80032, R113612
4	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		
4	Sealing Ring, Liner	**FP-R48767**		Rectangle; Top
4	Sealing Ring, Liner	**FP-R26121**		Round; Middle
4	Sealing Ring	**FP-SLR2520**		Round; Bottom
QTY	**PISTONS**	***PART NO.***	**SIZE**	**DESCRIPTION**
4	Piston Body w/o Pin	**FP-RE48368**		
4	Piston Kit w/Pin & Retainers	**FP-RE48368WP**		
4	Pin	**FP-R124230**		1.62" pin dia.
8	Piston Pin Retainer	**FP-R54114**		For 1.62" pin dia.
4	Pin Bushing	**FP-R57451**		w/Con. Rod marked R80032, R113612, R122191; Rod, piston & liner codes 4039, 4802; 1.621" ID, 1.813" OD, 1.370" O.A.L.
QTY	**CONNECTING RODS & BRGS.**	***PART NO.***	**SIZE**	**DESCRIPTION**
8	Con. Rod Bolt	**FP-R80033**		w/Con. Rod marked R80032, R80034, R81410, R105011, R113612; Torque-To-Yield bolt; Replacement recommended
4	Rod Pair	**FP-AR97517**	*STD*	w/Con. Rod marked R56187, R116851
4	Rod Pair	**FP-AR97653**	*10*	w/Con. Rod marked R56187, R116851
4	Rod Pair	**FP-AR97654**	*20*	w/Con. Rod marked R56187, R116851
4	Rod Pair	**FP-AR97655**	*30*	w/Con. Rod marked R56187, R116851
4	Rod Pair	**FP-RE27348**	*STD*	Crankshaft code 4702; Con. Rod code 4803
4	Rod Pair	**FP-RE27349**	*10*	Crankshaft code 4702; Con. Rod code 4803
4	Rod Pair	**FP-RE27358**	*20*	Crankshaft code 4702; Con. Rod code 4803
4	Rod Pair	**FP-RE27364**	*30*	Crankshaft code 4702; Con. Rod code 4803

(continued on next page)

11 *Industrial Applications* 4039T Eng. (cont.)
3.9L 239 (3917cc) OHV Turbo-Diesel L4 (Litre Engine), 106mm Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS. (cont.)	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-RE27348	STD	RePower Engs. DD14964, DD14965; w/Con. Rod marked R80032
4	Rod Pair	FP-RE27349	10	RePower Engs. DD14964, DD14965; w/Con. Rod marked R80032
4	Rod Pair	FP-RE27358	20	RePower Engs. DD14964, DD14965; w/Con. Rod marked R80032
4	Rod Pair	FP-RE27364	30	RePower Engs. DD14964, DD14965; w/Con. Rod marked R80032

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE507852	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66820	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-239TIFK		w/Con. Rod marked R80032, R80034, R113612, R58979; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-239TOHK		w/Con. Rod marked R56187, R58979, R80032, R80034, R113612, R56187; Incl. Torque-To-Yield con. rod bolts

12 *Industrial Applications* 4045H PowerTech Eng. (2-Valve Cyl. Head)
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 2V IC), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123542		
1	Head Gasket	FP-R116515		
1	Head Set	FP-RE66082		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R98062	STD	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
4	Intake	FP-R97490	15	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
4	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
4	Exhaust	FP-R97492	15	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
16	Keeper	FP-R91889		Exh. & Int.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	FP-R85687	STD	
4	Int.	FP-R98335		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
4	Int.	FP-R98063	STD	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-R26125		Exh. & Int.; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	FP-RE60005		Exh. & Int.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-RE31617		Positive type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3005, 3006, 3010, 3011, 3012

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
4	Fuel Injector Nozzle	FP-RE48786		Nozzle codes 16BF, 16CE, 16CM, 16GL, 16LP, 16LQ, 16NH, 160R, 160S, 1606, 1608, 1675, 1677, 1682, 1683, 1692, 1694, 1695
4	Fuel Injector Nozzle	FP-RE48786		4045H Engs.; Nozzle codes 160B, 160C, 1610, 1611, 1656, 1667
4	Fuel Injector Seal	FP-R92352		Upper packing; w/Injector nozzle codes 16BF, 16CE, 16CM, 16CV, 16GL, 16LP, 16LQ, 16NH, 16OR, 1605, 1606, 1608, 1656, 1667, 1675, 1677, 1682, 1683, 1692, 1694, 1695
4	Fuel Injector Seal	FP-R92352		4045H Engs.; Upper packing; w/Injector nozzle codes 160B, 160C, 1610, 1611
4	Fuel Injector Nut	FP-R79604		w/Injector nozzle codes 16HM, 16HN, 16HP, 16HQ, 16LK, 16LL
1	Washer Type Seal	FP-R51936		Aux. drive line; Line codes 5201, 5202, 5203, 5205, 5206
2	Washer Type Seal	FP-R51936		Fuel line; Aftercooled; Line codes 160B, 1611

(continued on next page)

Industrial Applications **4045H PowerTech Eng. (2-Valve Cyl. Head)** **12**
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 2V IC), 106mm Bore **(cont.)**

FUEL SYSTEM & PARTS (cont.)

QTY	FUEL INJECTION (cont.)	PART NO.	SIZE	DESCRIPTION
2	Washer Type Seal	**FP-R51936**		Fuel line; Line codes 16BF, 16CE, 16CM, 16CV, 16GL, 16LN, 16LP, 16LQ, 16NH, 16OR, 1605, 1671, 1677, 1682

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	**FP-RE500737 ***		Standard flow
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked RE70683

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	**FP-R97342**		Oil pan codes 1904, 1905; w/Stamped Steel Pan
2	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R119874**		

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
4	Balance Shaft Bearing	**FP-R115299**		4045H Engs.; Balance shaft code 4501

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Plain Main Brg.	**FP-RE65165**	*STD*	Crankshaft and Bearing code 4701
4	Plain Main Brg.	**FP-RE65911**	*.25MM*	Crankshaft and Bearing code 4701
1	Flanged Main Brg.	**FP-RE65168**	*STD*	Crankshaft and Bearing code 4701
1	Flanged Main Brg.	**FP-RE65912**	*.25MM*	Crankshaft and Bearing code 4701

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	**FP-R121867**	*STD*	
4	Liner w/Sealing Rings	**FP-RE500024**	*STD*	
4	Cylinder Kit Complete	**FP-RE507920**	*STD*	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562
4	Cylinder Kit Complete	**FP-RE507850**	*STD*	4045H Engs.; Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	**FP-RE505100**	*STD*	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin
4	Piston Body w/o Pin	**FP-RE55512**	*STD*	Piston, Con. Rod, Cyl. liner code 4809; Large Pin; w/Con. Rod marked R500335
4	Pin	**FP-R123178**		Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.
4	Pin	**FP-R123177**		4045H Engs.; Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335; Large Pin; 1.62" pin dia.
8	Piston Pin Retainer	**FP-M41029**		w/Con. Rod marked R123959; Small Pin; For 1.38" pin dia.
8	Piston Pin Retainer	**FP-R54114**		4045H Engs.; w/Con. Rod marked R500335; Large Pin; For 1.62" pin dia.
4	Pin Bushing	**FP-R123960**		w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.
4	Pin Bushing	**FP-R114082**		4045H Engs.; w/Con. Rod marked R500335; Large Pin
4	Piston Pin Kit	**FP-RE63915**		4045H Engs.; Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335; Large Pin; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	**FP-R114083**		Cyl. Liner code 4803; w/Con. Rod marked R123959; To Ser. No. 793,991; Small Pin
8	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4803, 4809; w/Con. Rod marked R123959, R500000; From Ser. No. 36,628
8	Con. Rod Bolt	**FP-R114083**		Cyl. Liner code 4809; w/Con. Rod marked R500335; To Ser. No. 793,991
8	Con. Rod Bolt	**FP-R501124**		4045H Engs.; Cyl. Liner code 4809; w/Con. Rod marked R500335; From Ser. No. 36,628
8	Con. Rod Bolt	**FP-R114083**		4045H Engs.; Cyl. Liner code 4809; w/Con. Rod marked R500335; To Ser. No. 793,991; Small Pin
4	Rod Pair	**FP-RE65908**	*STD*	Cyl. Liner codes 4801, 4803, 4809; w/Con. Rod marked R123959, R500000
4	Rod Pair	**FP-RE65909**	*.25MM*	Cyl. Liner codes 4801, 4803, 4809; w/Con. Rod marked R123959, R500000

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	**FP-RE507852**	*STD*	Use w/FP-RE55512 piston; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

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12 (cont.) *Industrial Applications* 4045H PowerTech Eng. (2-Valve Cyl. Head)
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 2V IC), 106mm Bore

CYLINDER COMPONENTS (cont.)

QTY	PISTON RINGS (cont.)	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE66820	STD	Use w/FP-RE55512 piston; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66271	STD	Use w/FP-RE59277 piston

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFKPT4045T		Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562

13 *Industrial Applications* 4045H PowerTech Eng. (4-Valve Cyl. Head)
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 4V IC), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123542		
1	Head Gasket	FP-R116515		
1	Head Set	FP-RE66082		

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3005, 3006, 3010, 3011, 3012

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	FP-RE500737 *		Standard flow
1	Water Pump Filter	FP-R98527		w/Pump housing marked RE70683

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R97342		Oil pan codes 1904, 1905; w/Stamped Steel Pan
2	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
4	Balance Shaft Bearing	FP-R115299		4045H Engs.; Balance shaft code 4501

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Plain Main Brg.	FP-RE65165	STD	Crankshaft and Bearing code 4701
4	Plain Main Brg.	FP-RE65911	.25MM	Crankshaft and Bearing code 4701
1	Flanged Main Brg.	FP-RE65168	STD	Crankshaft and Bearing code 4701
1	Flanged Main Brg.	FP-RE65912	.25MM	Crankshaft and Bearing code 4701

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	FP-R121867	STD	
4	Liner w/Sealing Rings	FP-RE500024	STD	
4	Cylinder Kit Complete	FP-RE507920	STD	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562
4	Cylinder Kit Complete	FP-RE507850	STD	Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335
4	Cyl. Liner Sealing Ring Kit	FP-AR65507		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-RE505100	STD	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin
4	Piston Body w/o Pin	FP-RE55512	STD	Piston, Con. Rod, Cyl. liner code 4809; Large Pin; w/Con. Rod marked R500335
4	Pin	FP-R123178		Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.
4	Pin	FP-R123177		4045H Engs.; Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335; Large Pin; 1.62" pin dia.
8	Piston Pin Retainer	FP-M41029		w/Con. Rod marked R123959; Small Pin; For 1.38" pin dia.
8	Piston Pin Retainer	FP-R54114		4045H Engs.; w/Con. Rod marked R500335; Large Pin; For 1.62" pin dia.
4	Pin Bushing	FP-R123960		w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.
4	Pin Bushing	FP-R114082		4045H Engs.; w/Con. Rod marked R500335; Large Pin

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* New Item — Check For Availability

Industrial Applications 4045H PowerTech Eng. (4-Valve Cyl. Head) 13 (cont.)
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 4V IC), 106mm Bore

CYLINDER COMPONENTS (cont.)

QTY	PISTONS (cont.)	PART NO.	SIZE	DESCRIPTION
4	Piston Pin Kit	FP-RE63915		4045H Engs.; Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335; Large Pin; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	FP-R114083		Cyl. Liner code 4803; w/Con. Rod marked R123959; To Ser. No. 793,991; Small Pin
8	Con. Rod Bolt	FP-R501124		Cyl. Liner code 4803; w/Con. Rod marked R123959, R500000; From Ser. No. 36,628
8	Con. Rod Bolt	FP-R501124		Cyl. Liner code 4809; w/Con. Rod marked R500000; From Ser. No. 36,628
8	Con. Rod Bolt	FP-R114083		Cyl. Liner code 4809; w/Con. Rod marked R500335; To Ser. No. 793,991
8	Con. Rod Bolt	FP-R501124		4045H Engs.; Cyl. Liner code 4809; w/Con. Rod marked R500335; From Ser. No. 36,628
8	Con. Rod Bolt	FP-R114083		4045H Engs.; Cyl. Liner code 4809; w/Con. Rod marked R500335; To Ser. No. 793,991; Small Pin
4	Rod Pair	FP-RE65908	STD	Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959, R500000
4	Rod Pair	FP-RE65909	.25MM	Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959, R500000
4	Rod Pair	FP-RE65908	STD	4045H Engs.; Cyl. Liner code 4809; w/Con. Rod marked R500335
4	Rod Pair	FP-RE65909	.25MM	4045H Engs.; Cyl. Liner code 4809; w/Con. Rod marked R500335

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE507852	STD	Use w/FP-RE55512 piston; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66820	STD	Use w/FP-RE55512 piston; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66271	STD	Use w/FP-RE59277 piston

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFKPT4045T		Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562

Industrial Applications 4045D PowerTech Eng. 14
4.5L 275.8 (4522cc) OHV Diesel L4 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123542		
1	Head Gasket	FP-R116515		
1	Head Set	FP-RE66082		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R98062	STD	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
4	Intake	FP-R97490	15	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
4	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
4	Exhaust	FP-R97492	15	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
16	Keeper	FP-R91889		Exh. & Int.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	FP-R85687	STD	
4	Int.	FP-R98335		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
4	Int.	FP-R98063	STD	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-R26125		Exh. & Int.; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	FP-RE60005		Exh. & Int.

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3006, 3010

(continued on next page)

14 *Industrial Applications* 4045D PowerTech Eng.
(cont.) 4.5L 275.8 (4522cc) OHV Diesel L4 (PowerTech 2V), 106mm Bore

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
4	Fuel Injector Seal	FP-R92352		Upper packing; w/Injector nozzle codes 16BG, 16BH, 16BJ, 16CL, 16DL, 16GB, 16GC, 16HJ, 16HK, 16HV, 16KE, 16LM, 16LN, 1601, 1602, 1603, 1663, 1671, 1672, 1673, 1674, 1691
4	Fuel Injector Nut	FP-R79604		w/Injector nozzle codes 16HR, 16HS, 16HT, 16HU
1	Washer Type Seal	FP-R51936		Aux. drive line; Line codes 5201, 5202, 5205
2	Washer Type Seal	FP-R51936		Fuel line; Line codes 16BG, 16BJ, 16CL, 16DL, 16GB, 16GC, 16HJ, 16HK, 16HV, 1601, 1603, 1663, 1671, 1673, 1691

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	FP-RE500737 *		Standard flow
1	Water Pump Filter	FP-R98527		w/Pump housing marked RE70683

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R97342		Oil pan codes 1904, 1905; w/Stamped Steel Pan
1	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
4	Balance Shaft Bearing	FP-R115299		Balance shaft code 4502

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Plain Main Brg.	FP-RE65165	STD	Crankshaft and Bearing code 4701
4	Plain Main Brg.	FP-RE65911	.25MM	Crankshaft and Bearing code 4701
1	Flanged Main Brg.	FP-RE65168	STD	Crankshaft and Bearing code 4701
1	Flanged Main Brg.	FP-RE65912	.25MM	Crankshaft and Bearing code 4701

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	FP-R121867	STD	
4	Liner w/Sealing Rings	FP-RE500024	STD	
4	Cylinder Kit Complete	FP-RE65966	STD	Piston, Con. Rod, Cyl. liner code 4801
4	Cylinder Kit Complete	FP-RE507920	STD	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562; Use w/RE59277, RE505101 piston
4	Cyl. Liner Sealing Ring Kit	FP-AR65507		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-RE505101	STD	Piston, Con. Rod, Cyl. liner code 4801
4	Piston Body w/o Pin	FP-RE505100	STD	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin
4	Pin	FP-R123178		Piston, Con. Rod, Cyl. liner codes 4801, 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.
8	Piston Pin Retainer	FP-M41029		w/Con. Rod marked R123959; Small Pin; For 1.38" pin dia.
4	Pin Bushing	FP-R123960		w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	FP-R501124		Cyl. Liner code 4801, 4803; w/Con. Rod marked R123959, R500000; From Ser. No. 36,628
8	Con. Rod Bolt	FP-R114083		Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959; To Ser. No. 793,991; Small Pin
4	Rod Pair	FP-RE65908	STD	Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959, R500000
4	Rod Pair	FP-RE65909	.25MM	Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959, R500000

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE66271	STD	Use w/RE59277, RE505101 piston

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFKPT4045T		Piston, Con. Rod, Cyl. liner code 4803; Use w/RE59277, RE505100 piston; To Ser. No. 825,562

* New Item — Check For Availability

Industrial Applications **4045T PowerTech Eng.** **15**
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R123542**		
1	Head Gasket	**FP-R116515**		
1	Head Set	**FP-RE66082**		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	**FP-R98062**	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
4	Intake	**FP-R97490**	*15*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
4	Exhaust	**FP-R90692**	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
4	Exhaust	**FP-R97492**	*15*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
16	Keeper	**FP-R91889**		Exh. & Int.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	**FP-R85687**	*STD*	
4	Int.	**FP-R98335**		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
4	Int.	**FP-R98063**	*STD*	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-R26125**		Exh. & Int.; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	**FP-RE60005**		Exh. & Int.

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	**FP-R53108**		3-Hole mount; Starting motor codes 3005, 3006, 3010, 3011, 3012

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
4	Fuel Injector Nozzle	**FP-RE48786**		Nozzle codes 16BF, 16CE, 16CM, 16GL, 16LP, 16LQ, 16NH, 160R, 160S, 1606, 1608, 1675, 1677, 1682, 1683, 1692, 1694, 1695
4	Fuel Injector Seal	**FP-R92352**		Upper packing; w/Injector nozzle codes 16BF, 16CE, 16CM, 16CV, 16GL, 16LP, 16LQ, 16NH, 16OR, 1605, 1606, 1608, 1656, 1667, 1675, 1677, 1682, 1683, 1692, 1694, 1695
4	Fuel Injector Nut	**FP-R79604**		w/Injector nozzle codes 16HM, 16HN, 16HP, 16HQ, 16LK, 16LL
1	Washer Type Seal	**FP-R51936**		Aux. drive line; Line codes 5201, 5202, 5203, 5205, 5206
2	Washer Type Seal	**FP-R51936**		Fuel line; Aftercooled; Line codes 160B, 1611
2	Washer Type Seal	**FP-R51936**		Fuel line; Line codes 16BF, 16CE, 16CM, 16CV, 16GL, 16LN, 16LP, 16LQ, 16NH, 16OR, 1605, 1671, 1677, 1682

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	**FP-RE500737 ***		Standard flow
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked RE70683

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	**FP-AR48675**		w/Housing marked R54808, R59051, R89294, R100878; 180 Deg.
1	Thermostat	**FP-RE33705**		w/Housing marked T19651, T20218, R60256, R127777; 180 Deg.

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	**FP-R97342**		Oil pan codes 1904, 1905; w/Stamped Steel Pan
2	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R119874**		

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
4	Balance Shaft Bearing	**FP-R115299**		Balance shaft code 4501

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Plain Main Brg.	**FP-RE65165**	*STD*	Crankshaft and Bearing code 4701
4	Plain Main Brg.	**FP-RE65911**	*.25MM*	Crankshaft and Bearing code 4701

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* New Item — Check For Availability

15 (cont.) *Industrial Applications* 4045T PowerTech Eng.
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 2V), 106mm Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	MAIN BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Flanged Main Brg.	FP-RE65168	STD	Crankshaft and Bearing code 4701
1	Flanged Main Brg.	FP-RE65912	.25MM	Crankshaft and Bearing code 4701

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	FP-R121867	STD	
4	Cylinder Kit Complete	FP-RE507920	STD	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562
4	Cylinder Kit Complete	FP-RE507850	STD	Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335
4	Cyl. Liner Sealing Ring Kit	FP-AR65507		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-RE505100	STD	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin
4	Piston Body w/o Pin	FP-RE55512	STD	Piston, Con. Rod, Cyl. liner code 4809; Large Pin; w/Con. Rod marked R500335
4	Pin	FP-R123178		Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.
4	Pin	FP-R123177		Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335; Large Pin; 1.62" pin dia.
8	Piston Pin Retainer	FP-M41029		w/Con. Rod marked R123959; Small Pin; For 1.38" pin dia.
8	Piston Pin Retainer	FP-R54114		w/Con. Rod marked R500335; Large Pin; For 1.62" pin dia.
4	Pin Bushing	FP-R123960		w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.
4	Pin Bushing	FP-R114082		w/Con. Rod marked R500335; Large Pin
4	Piston Pin Kit	FP-RE63915		Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335; Large Pin; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	FP-R114083		Cyl. Liner code 4803; w/Con. Rod marked R123959; To Ser. No. 793,991; Small Pin
8	Con. Rod Bolt	FP-R501124		Cyl. Liner code 4803; w/Con. Rod marked R123959, R500000; From Ser. No. 36,628
8	Con. Rod Bolt	FP-R501124		Cyl. Liner code 4809; w/Con. Rod marked R500000, R500335; From Ser. No. 36,628
8	Con. Rod Bolt	FP-R114083		Cyl. Liner code 4809; w/Con. Rod marked R500335; To Ser. No. 793,991; Small Pin
4	Rod Pair	FP-RE65908	STD	Cyl. Liner code 4809; w/Con. Rod marked R500335
4	Rod Pair	FP-RE65909	.25MM	Cyl. Liner code 4809; w/Con. Rod marked R500335
4	Rod Pair	FP-RE65908	STD	Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959, R500000
4	Rod Pair	FP-RE65909	.25MM	Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959, R500000

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE66271	STD	Use w/RE505100, RE59277 piston
4	Ring Set Single Cylinder	FP-RE507852	STD	Use w/RE55512 piston; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66820	STD	Use w/RE55512 piston; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFKPT4045T		Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562

16 *Industrial Applications* 4276D Eng.
4.5L 276 OHV Diesel L4 (Standard), 4.1875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R73521		Rocker arm cover codes 1102, 1104, 1110
1	Valve Cover Gasket	FP-T20075		To Ser. No. 598,042
1	Head Gasket	FP-R125863		From Ser. No. 100,001; Manufactured after 1983
1	Head Gasket	FP-R125863		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	Head Set	FP-RE38851		From Ser. No. 100,001; Manufactured after 1983
1	Head Set	FP-RE38851		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R79623	STD	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79628	3	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.

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CYL. HEAD & PARTS (cont.)

QTY	VALVE (cont.)	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R79629	15	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Intake	FP-R79630	30	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79624	STD	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79625	3	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79626	15	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Exhaust	FP-R79627	30	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
16	Keeper	FP-41339		1 groove; Square cut key groove
16	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	FP-R73064	STD	
4	Int.	FP-R51734	STD	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
4	Rotocap	FP-RE11410		Exh.
1	Bushing	FP-T26321		Lower
1	Bushing	FP-T20034		Upper
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover codes 1101, 1104; Oil filler neck codes 1201, 1202, 1203

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-R87627		Exh. & Int.; From Ser. No. 724,327; O-Ring type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3001, 3017, 3018

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Delco-Remy No. 1102936; 61 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. A12NJD453; 35 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. A12NJD604; 55 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. 8TA2009ES; 30 amp alternator
1	Ball Brg.	FP-JD9449		Front; 12 Volt, 63 amp alternator; 72 amp alternator; 78 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Codes 3101, 3102, 3103, 3104, 3105, 3106, 3107, 3108, 3109, 3110, 3111, 3112, 3113, 3114, 3115, 3116, 3129; 65 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
4	Exhaust Manifold Gasket	FP-R90658		
1	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
4	Fuel Injector Nozzle	FP-RE37503		Nozzle codes 1602, 1603, 1605; From Ser. No. 100,001; Manufactured after 1983
4	Fuel Injector Nozzle	FP-RE37503		Nozzle codes 1602, 1603, 1605; From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
4	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1602, 1603, 1605; 9.270MM X 13.600MM X 5.080MM
4	Fuel Injector Seal	FP-R92352		Upper packing; w/Stanadyne® nozzle No. 26993
8	Washer	FP-T20055		Pump codes 1602, 1603
4	Fuel Injector Nut	FP-R79604		w/Injector marked 20291, 20504, 22205, 22264, 26993
8	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1602, 1603, 1613

(continued on next page)

16 (cont.) *Industrial Applications* 4276D Eng.
4.5L 276 OHV Diesel L4 (Standard), 4.1875" Bore

FUEL SYSTEM & PARTS (cont.)

QTY	FUEL INJECTION (cont.)	PART NO.	SIZE	DESCRIPTION
4	Washer Type Seal	FP-R48000		Lower; w/Nozzle codes 1602, 1603, 1625; w/Nozzle marked 26993
4	Washer Type Seal	FP-R60746		Upper; Nozzle codes 1602, 1603, 1605; From Ser. No. 609,312

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Transfer pump
1	Fuel Transfer Pump Gasket	FP-R97350		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	FP-R94419		Pump code 2001; w/Pump housing marked R54805, R59049
1	Water Pump Repair/Rebuild Kit	FP-925740979		w/Pump housing marked R56787, R62902
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	FP-R55405		w/Pump housing marked R54805, R59049
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked R55164, R90783
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R54805, R59049
1	Shaft & Bearing Assembly	FP-JD9257		w/Pump housing marked R54805, R59049

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2204; Thermostat cover code 2102 Vertical, 2201 Horizontal; Housing marked R89294, From Ser. No. 366,183; 180 Deg.
2	Thermostat	FP-AR48675		Thermostat code 2204; Thermostat cover code 2102 Vertical, 2201 Horizontal; To Ser. No. 366,182; 180 Deg.
1	Thermostat Gasket	FP-T20219		Thermostat cover code 2101, 2102
1	Thermostat Cover Gasket	FP-T20215		Thermostat cover codes 2101, 2102
2	O-Ring	FP-R56461		Thermostat housing tube seals; Housing code 2204; To Ser. No. 366,182

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		Flywheel housing code 1425; From Ser. No. 100,001
1	Flywheel Housing Gasket	FP-R97351		Flywheel housing codes 1410, 1411, 1432
1	Oil Pan Gasket	FP-R119360		From Ser. No. 100,001; Manufactured after 1983; Oil pan codes 1901, 1902, 1903; w/Cast iron oil pan
1	Oil Pan Gasket	FP-R119360		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83; Oil pan codes 1901, 1903; w/Cast iron oil pan
1	Oil Pan Gasket	FP-R97342		Oil pan code 1904; w/Stamped Steel Pan
1	O-Ring	FP-U13639		Block coolant drain plug seal; 1.475" X .118"
1	Block to End Plate Front Gskt	FP-R131794		From Ser. No. 100,001; Manufactured after 1983
1	Block to End Plate Front Gskt	FP-R131794		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-PG219CS		Wear sleeve incl.
1	In-Frame Gasket Set	FP-PG219S		
1	Complete Overhaul Gasket Set	FP-RE37715		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE37715WS		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	FP-R57160S		
6	Balance Shaft Bearing	FP-R57160		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler Gasket	FP-R98486		From Ser. No. 100,001; Manufactured after 1983
1	Oil Cooler Gasket	FP-R98487		From Ser. No. 100,001; Manufactured after 1983; Lower oil cooler cover
1	Oil Cooler Gasket	FP-R98486		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	Oil Cooler Gasket	FP-R98487		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83; Lower oil cooler cover
1	O-Ring	FP-A4730R		From Ser. No. 100,001; Manufactured after 1983; Oil cooler to block check valve seal
1	O-Ring	FP-A4730R		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83; Oil cooler to block check valve seal
1	O-Ring	FP-R56814		Oil cooler housing inner seal; From Ser. No. 100,001; Manufactured after 1983
1	O-Ring	FP-R56814		Oil cooler housing inner seal; From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	O-Ring	FP-R56815		Oil cooler housing inner seal; From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

(continued on next page)

ENGINE BLOCK & PARTS (cont.)

QTY	OIL COOLERS & FILTERS (cont.)	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R56815**		Oil cooler housing outer seal; From Ser. No. 100,001; Manufactured after 1983

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE56792**		Crankshaft marked R54501, R108657
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft marked R120009

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		
1	O-Ring	**FP-H35244**		Crankshaft pulley; w/Crankshaft marked R12009

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		Crankshaft codes 1301, 1302; Flywheel housing codes 1403, 1404, 1405, 1421, 1425, 1432

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3004**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300410**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300420**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300430**	*30*	w/Flanged thrust brg.
4	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
4	Thrust Washer	**FP-R78598**	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil pump inlet; w/Pump housing marked R54629
1	O-Ring	**FP-R80632**		Oil Pump outlet tube
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1201, 1202, 1203
1	Oil Filter Adapter Gasket	**FP-R98488**		w/Filter adapter marked R131238
1	Oil Pump Seal Ring	**FP-R79563**		Oil pump outlet adapter; w/Pump marked R54629; To Ser. No. 122,703

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	**FP-R121867**	*STD*	
4	Liner w/Sealing Rings	**FP-RE500024**	*STD*	1.38" pin dia.
4	Cylinder Kit Complete	**FP-RE19831**	*STD*	w/Con. Rod marked R54617; 1.38" pin dia.
4	Cylinder Kit Complete	**FP-RE19833**	*STD*	w/Con. Rod marked R56187, R116851; Pin dia. 1.62"
4	Cylinder Kit Complete	**FP-RE28966**	*STD*	1.62" pin dia.
4	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		
4	Sealing Ring, Liner	**FP-R48767**		Rectangle; Top
4	Sealing Ring, Liner	**FP-R26121**		Round; Middle
4	Sealing Ring	**FP-SLR2520**		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	**FP-AR63342**	*STD*	1.38" pin dia.
4	Piston Body w/o Pin	**FP-AR68188**	*STD*	1.62" pin dia.
4	Piston Kit w/Pin & Retainers	**FP-AR63342WP**	*STD*	1.38" pin dia.
4	Piston Kit w/Pin & Retainers	**FP-AR68188WP**	*STD*	1.62" pin dia.
4	Pin	**FP-R125754**		1.38" pin dia.
4	Pin	**FP-R124230**		1.62" pin dia.
8	Piston Pin Retainer	**FP-R54114**		Large Pin; For 1.62" pin dia.
8	Piston Pin Retainer	**FP-M41029**		Small Pin; For 1.38" pin dia.
4	Pin Bushing	**FP-R57450**		w/Con. Rod marked R54617; Pin dia. 1.38"; w/1.38" pin dia.
4	Pin Bushing	**FP-R57451**		w/Con. Rod marked R56187, R116851; Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	**FP-R74195**		w/Con. Rod marked R54617, R56187, R116851; Torque-To-Yield bolt; Replacement recommended
4	Rod Pair	**FP-AR97517**	*STD*	
4	Rod Pair	**FP-AR97653**	*10*	
4	Rod Pair	**FP-AR97654**	*20*	
4	Rod Pair	**FP-AR97655**	*30*	

(continued on next page)

16 (cont.) *Industrial Applications* **4276D Eng.**
4.5L 276 OHV Diesel L4 (Standard), 4.1875" Bore

CYLINDER COMPONENTS (cont.)

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	**FP-RE507852**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	**FP-RE66820**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-276DSPIFK**		w/Con. Rod marked R54617; Pin dia. 1.38"; w/1.38" pin dia.
1	In-Frame Overhaul Kit	**FP-276DLPIFK**		w/Con. Rod marked R56187, R116851; Pin dia. 1.62"; w/1.62" pin dia.
1	Complete Overhaul Kit	**FP-276DSPOHK**		w/Con. Rod marked R54617; Pin dia. 1.38"; Incl. front & rear seals; Crankshaft marked R120009; w/1.38" pin dia.
1	Complete Overhaul Kit	**FP-276DLPOHK**		w/Con. Rod marked R56187, R116851; Pin dia. 1.62"; Incl. front & rear seals; Crankshaft marked R120009; w/1.62" pin dia.

17 *Industrial Applications* **4276T Eng.**
4.5L 276 OHV Turbo-Diesel L4 (Standard), 4.1875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R73521**		Rocker arm cover codes 1101, 1102, 1104, 1110
1	Valve Cover Gasket	**FP-T20075**		To Ser. No. 598,042
1	Head Gasket	**FP-R125863**		From Ser. No. 100,001; Manufactured after 1983
1	Head Gasket	**FP-R125863**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	Head Set	**FP-RE38851**		From Ser. No. 100,001; Manufactured after 1983
1	Head Set	**FP-RE38851**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	**FP-R83071**	*STD*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3720" Stem Dia., 5.1660" O.A.L.
4	Intake	**FP-R89223**	*3*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3750" Stem Dia., 5.1660" O.A.L.
4	Intake	**FP-R89224**	*15*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3870" Stem Dia., 5.1660" O.A.L.
4	Intake	**FP-R79623**	*STD*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Intake	**FP-R79628**	*3*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Intake	**FP-R79629**	*15*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Intake	**FP-R79630**	*30*	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79624**	*STD*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79625**	*3*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79626**	*15*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
4	Exhaust	**FP-R79627**	*30*	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
16	Keeper	**FP-41339**		1 groove; Square cut key groove
16	Keeper	**FP-T20077**		1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	**VK-138B**		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	**FP-R51734**	*STD*	
4	Int.	**FP-R73064**	*STD*	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	**FP-R26125**		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	**FP-RE11410**		Exh. & Int.
1	Bushing	**FP-T26321**		Lower
1	Bushing	**FP-T20034**		Upper
1	Oil Filler Cap Gasket	**FP-T20328**		Rocker arm cover codes 1101, 1104; Oil filler neck codes 1201, 1202, 1203

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	**FP-R87627**		O-Ring type

(continued on next page)

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3001, 3017, 3018

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
4	Exhaust Manifold Gasket	FP-R90658		
1	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
8	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
4	Fuel Injector Nozzle	FP-RE37503		Nozzle codes 1602, 1603, 1605; From Ser. No. 100,001; Manufactured after 1983
4	Fuel Injector Nozzle	FP-RE37503		Nozzle codes 1602, 1603, 1605; From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
4	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1602, 1603, 1605; 9.270MM X 13.600MM X 5.080MM
4	Fuel Injector Seal	FP-R92352		Upper packing; w/Stanadyne® nozzle No. 26993
4	Fuel Injector Nut	FP-R79604		w/Injector marked 20291, 20504, 22205, 22264, 26993
1	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1602, 1603, 1605
1	Washer Type Seal	FP-R48000		Lower; w/Nozzle codes 1602, 1603, 1605; w/Nozzle marked 26993
1	Washer Type Seal	FP-R60746		Upper; Nozzle codes 1602, 1603, 1605; From Ser. No. 609,312

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Transfer pump
1	Fuel Transfer Pump Gasket	FP-R97350		

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		
1	Turbocharger Mounting Gasket	FP-R89879		From Ser. No. 100,001; Manufactured after 1983
1	Turbocharger Mounting Gasket	FP-R89879		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	Turbocharger Oil Supply Gskt.	FP-R97348		To Ser. No. 148,514

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	FP-R56812		Pump code 2001
1	Water Pump Repair/Rebuild Kit	FP-864340979		w/Pump housing marked R51661, R73606, R73724, R79171
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	FP-R56809		w/Pump housing marked AR80116
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked R55164, R90783
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R54805, R59049
1	Shaft & Bearing Assembly	FP-JD8643		w/Pump housing marked AR80116

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2204; 180 Deg.
1	Thermostat Gasket	FP-T20219		Thermostat housing code 3901
1	Thermostat Cover Gasket	FP-T20215		Thermostat cover codes 2101, 2102
2	O-Ring	FP-R56461		Thermostat housing tube seals; Housing code 3901

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		Use w/Flywheel housing marked R120034, R98778; Use w/thin profile flywheel housing
1	Oil Pan Gasket	FP-R97342		w/Stamped Steel Pan
1	O-Ring	FP-U13639		Block coolant drain plug seal; 1.475" X .118"
1	Block to End Plate Front Gskt	FP-R131794		From Ser. No. 100,001; Manufactured after 1983
1	Block to End Plate Front Gskt	FP-R131794		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-PG219CS		Wear sleeve incl.
1	In-Frame Gasket Set	FP-PG219S		
1	Complete Overhaul Gasket Set	FP-RE37715		Crankshaft seals not incl.

(continued on next page)

17 (cont.) *Industrial Applications* **4276T Eng.**
4.5L 276 OHV Turbo-Diesel L4 (Standard), 4.1875" Bore

ENGINE BLOCK & PARTS (cont.)

QTY	GASKET SETS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	**FP-RE37715WS**		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
1	Bal. Shaft Set	**FP-R57160S**		
6	Balance Shaft Bearing	**FP-R57160**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler Gasket	**FP-R98486**		From Ser. No. 100,001; Manufactured after 1983
1	Oil Cooler Gasket	**FP-R98487**		From Ser. No. 100,001; Manufactured after 1983; Lower oil cooler cover
1	Oil Cooler Gasket	**FP-R98486**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	Oil Cooler Gasket	**FP-R98487**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83; Lower oil cooler cover
1	O-Ring	**FP-A4730R**		From Ser. No. 100,001; Manufactured after 1983; Oil cooler to block check valve seal
1	O-Ring	**FP-A4730R**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83; Oil cooler to block check valve seal
1	O-Ring	**FP-R56815**		Oil cooler housing outer seal; From Ser. No. 100,001; Manufactured after 1983
1	O-Ring	**FP-R56815**		Oil cooler housing outer seal; From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE56792**		Crankshaft marked R54501, R108657
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft codes 1301, 1302; Crankshaft marked R120009

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		
1	O-Ring	**FP-H35244**		Crankshaft pulley; Crankshaft marked R12009

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3004**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300410**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300420**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300430**	*30*	w/Flanged thrust brg.
4	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
4	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
4	Thrust Washer	**FP-R78598**	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil pump inlet; w/Pump housing marked R54629
1	O-Ring	**FP-R80632**		Oil Pump outlet tube
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1201, 1202, 1203
1	Oil Filter Adapter Gasket	**FP-R98488**		w/Filter adapter marked R131238
1	Oil Pump Seal Ring	**FP-R79563**		Oil pump outlet adapter; w/Pump marked R54629; To Ser. No. 122,703

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	**FP-R121867**	*STD*	
4	Liner w/Sealing Rings	**FP-RE500024**	*STD*	Pin dia. 1.62"
4	Cylinder Kit Complete	**FP-RE19832**	*STD*	w/Con. Rod marked R56187; Pin dia. 1.62"
4	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		
4	Sealing Ring, Liner	**FP-R48767**		Rectangle; Top
4	Sealing Ring, Liner	**FP-R26121**		Round; Middle
4	Sealing Ring	**FP-SLR2520**		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	**FP-AR96389**		
4	Piston Kit w/Pin & Retainers	**FP-AR96389WP**		
4	Pin	**FP-R124230**		1.62" pin dia.

(continued on next page)

Industrial Applications **4276T Eng.** **17**
4.5L 276 OHV Turbo-Diesel L4 (Standard), 4.1875" Bore **(cont.)**

CYLINDER COMPONENTS (cont.)

QTY	PISTONS (cont.)	PART NO.	SIZE	DESCRIPTION
8	Piston Pin Retainer	FP-R54114		For 1.62" pin dia.
4	Pin Bushing	FP-R57451		w/Con. Rod marked R56187, R116851; Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	FP-R74195		w/Con. Rod marked R54617, R56187, R116851; Torque-To-Yield bolt; Replacement recommended
4	Rod Pair	FP-AR97517	*STD*	
4	Rod Pair	FP-AR97653	*10*	
4	Rod Pair	FP-AR97654	*20*	
4	Rod Pair	FP-AR97655	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE507852	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66820	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-276TIFK		w/Con. Rod marked R56187, R116851; Pin dia. 1.62"; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-276TOHK		w/Con. Rod marked R56187, R116851; Pin dia. 1.62"; Incl. front & rear seals; Crankshaft codes 1301, 1302; Crankshaft marked R120009; Incl. Torque-To-Yield con. rod bolts

Industrial Applications **6068HN PowerTech Eng. (Natural Gas)** **18**
6.8L 413.8 (6784cc) OHV Turbo-NG L6 (PowerTech 2V IC), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123543		
1	Head Gasket	FP-R116516		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
24	Keeper	FP-R91889		Head & valve code 5113

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		Head & valve code 5113; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE60005		Exh. & Int.; Head & valve code 5113

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-R90658		Exh. manifold, shield code 2817

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Filter	FP-R98527		Water pump code 4404; Pump marked R500401

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-AR72852		Thermostat code 2203; 192 Deg.
1	O-Ring	FP-R26286		Sensor seal; Thermostat codes 2108, 2203

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R123354		
2	O-Ring	FP-U13639		Block coolant drain plug seal; Block code 4604; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		Block code 4604

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE65165	*STD*	Crankshaft and Bearing code 4702; w/Crankshaft marked R116076
6	Plain Main Brg.	FP-RE65911	*.25MM*	Crankshaft and Bearing code 4702; w/Crankshaft marked R116076
1	Flanged Main Brg.	FP-RE65168	*STD*	Crankshaft and Bearing code 4702; w/Crankshaft marked R116076
1	Flanged Main Brg.	FP-RE65912	*.25MM*	Crankshaft and Bearing code 4702; w/Crankshaft marked R116076

(continued on next page)

18 (cont.) *Industrial Applications* 6068HN PowerTech Eng. (Natural Gas)
6.8L 413.8 (6784cc) OHV Turbo-NG L6 (PowerTech 2V IC), 106mm Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R61871		Oil pump code 5001; Oil pump inlet seal
1	O-Ring	FP-R72328		Vent tube elbow seal; Rocker arm cover code 1104

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR65507		Piston & rod bearing code 4811

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R123177		Piston & rod bearing code 4811; 1.62" pin dia.
12	Piston Pin Retainer	FP-R54114		Piston & rod bearing code 4811; For 1.62" pin dia.
6	Pin Bushing	FP-R114082		Use w/Con. Rod marked R500335
6	Piston Pin Kit	FP-RE63915		Piston & rod bearing code 4811; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R501124		Use w/Con. Rod marked R500335
6	Rod Pair	FP-RE65908	STD	Piston & rod bearing code 4811
6	Rod Pair	FP-RE65909	.25MM	Piston & Rod bearing code 4811

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE507852	STD	Piston & rod bearing code 4811; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	FP-RE66820	STD	Piston & rod bearing code 4811; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

19 *Industrial Applications* 6068H PowerTech Eng. (2-Valve Cyl. Head)
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 2V IC), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123543		
1	Head Gasket	FP-R116516		
1	Head Set	FP-RE66083		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R98062	STD	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
6	Intake	FP-R97490	15	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
6	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
6	Exhaust	FP-R97492	15	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
24	Keeper	FP-R91889		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R85687	STD	
6	Int.	FP-R98335		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
6	Int.	FP-R98063	STD	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE60005		Exh. & Int.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-RE31617		Exh. & Int.; From Ser. No. 300,000; Positive type
12	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3003, 3006, 3010, 3011, 3013, 3025, 3026

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Nozzle	FP-RE48786		
6	Fuel Injector Seal	FP-R92352		Upper packing
6	Washer Type Seal	FP-R48000		Lower packing
12	Washer Type Seal	FP-R51936		Fuel line; Line codes 1613, 1614, 1615, 1619, 1621, 1622, 1623, 1668, 1678, 1680, 1681, 1685, 1686, 1688, 1697, 160D; To Ser. No. 715,739
12	Washer Type Seal	FP-R51936		Fuel line; Line codes 1619, 1681, 1685, 1686, 1696, 1697, 16CM, 16CN, 16CP, 16CW, 16CX, 16CY, 16DY, 16LS, 16LT, 16LU, 16MG, 16MH, 16ML, 16MM

(continued on next page)

Industrial Applications **6068H PowerTech Eng. (2-Valve Cyl. Head)** **19**
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 2V IC), 106mm Bore **(cont.)**

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked RE500734, RE70683, RE70985; High Flow

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	**FP-R123354**		
2	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R119874**		

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	**FP-RE65165**	*STD*	Crankshaft and Bearing codes 4702, 4703
6	Plain Main Brg.	**FP-RE65911**	*.25MM*	Crankshaft and Bearing codes 4702, 4703
1	Flanged Main Brg.	**FP-RE65168**	*STD*	Crankshaft and Bearing codes 4702, 4703
1	Flanged Main Brg.	**FP-RE65912**	*.25MM*	Crankshaft and Bearing codes 4702, 4703

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil tube from pump to block

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R121867**	*STD*	
6	Liner w/Sealing Rings	**FP-RE500024**	*STD*	
6	Cylinder Kit Complete	**FP-RE507850**	*STD*	Con. Rod Bearing & Piston code 4810
6	Cylinder Kit Complete	**FP-RE507920**	*STD*	Con. Rod, Bearing & Piston codes 4807
6	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-RE55512**	*STD*	Con. Rod Bearing & Piston code 4810
6	Piston Body w/o Pin	**FP-RE505100**	*STD*	Con. Rod, Bearing & Piston codes 4807
6	Pin	**FP-R123178**		Con. Rod, Bearing & Piston code 4807; 1.375" pin dia.
6	Pin	**FP-R123177**		Con. Rod, Bearing & Piston codes 4810; 1.62" pin dia.
12	Piston Pin Retainer	**FP-M41029**		Con. Rod, Bearing & Piston codes 4805, 4807; For 1.38" pin dia.
12	Piston Pin Retainer	**FP-R54114**		Con. Rod, Bearing & Piston codes 4810; For 1.62" pin dia.
6	Pin Bushing	**FP-R114082**		Con. Rod, Bearing & Piston code 4810; w/Con. Rod marked R500335
6	Pin Bushing	**FP-R123960**		Con. Rod, Bearing & Piston codes 4807, 4810; 1.375" pin dia.
6	Piston Pin Kit	**FP-RE63915**		Con. Rod, Bearing & Piston codes 4810; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R114083**		Cyl. Liner code 4807; w/Con. Rod marked R123959; To Ser. No. 794,054
12	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4807; w/Con. Rod marked R500000; From Ser. No. 794,055
12	Con. Rod Bolt	**FP-R114083**		Cyl. Liner code 4810; w/Con. Rod marked R500335
12	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4810; w/Con. Rod marked R500335
12	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4810; w/Con. Rod marked R500335; From Ser. No. 794,055
12	Con. Rod Bolt	**FP-R114083**		Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335; From Ser. No. 794,055
6	Rod Pair	**FP-RE65908**	*STD*	Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335
6	Rod Pair	**FP-RE65909**	*.25MM*	Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-RE66271**	*STD*	Piston & Liner code 4807
6	Ring Set Single Cylinder	**FP-RE507852**	*STD*	Piston & Liner code 4810; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	**FP-RE66820**	*STD*	Piston & Liner code 4810; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-IFKPT6068**		Con. Rod, Bearing & Piston codes 4807

20 *Industrial Applications* 6068H PowerTech Eng. (4-Valve Cyl. Head)
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 4V IC), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123543		
1	Head Gasket	FP-R116516		
1	Head Set	FP-RE66083		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	FP-R98062	STD	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
12	Intake	FP-R97490	15	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
12	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
12	Exhaust	FP-R97492	15	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
48	Keeper	FP-R91889		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
12	Exh.	FP-R85687	STD	
12	Int.	FP-R98335		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
12	Int.	FP-R98063	STD	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
24	Spring	FP-R26125		Exh. & Int.; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
24	Rotocap	FP-RE60005		Exh. & Int.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
24	Valve Stem Seal	FP-RE31617		Exh. & Int.; Positive type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3003, 3006, 3010, 3011, 3013, 3025, 3026

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Nozzle	FP-RE48786		Do not use w/Stanadyne DE10 injector pump
6	Fuel Injector Seal	FP-R92352		Upper packing
6	Washer Type Seal	FP-R48000		Lower packing

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	FP-RE500737 *		Standard flow
1	Water Pump Filter	FP-R98527		w/Pump housing marked RE70683, RE70985
1	Water Pump Filter	FP-R98527		w/Pump housing marked R500734; High Flow

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R123354		
2	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-RE66085		

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE65165	STD	Crankshaft and Bearing codes 4702, 4703
6	Plain Main Brg.	FP-RE65911	.25MM	Crankshaft and Bearing codes 4702, 4703
1	Flanged Main Brg.	FP-RE65168	STD	Crankshaft and Bearing codes 4702, 4703
1	Flanged Main Brg.	FP-RE65912	.25MM	Crankshaft and Bearing codes 4702, 4703

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R61871		Oil tube from pump to block

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R121867	STD	
6	Liner w/Sealing Rings	FP-RE500024	STD	

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* New Item — Check For Availability

Industrial Applications **6068H PowerTech Eng. (4-Valve Cyl. Head)** **20**
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 4V IC), 106mm Bore **(cont.)**

CYLINDER COMPONENTS (cont.)

QTY	LINERS (cont.)	PART NO.	SIZE	DESCRIPTION
6	Cylinder Kit Complete	**FP-RE507850**	*STD*	
6	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-RE55512**	*STD*	
6	Pin	**FP-R123177**		Con. Rod, Bearing & Piston codes 4810; 1.62" pin dia.
12	Piston Pin Retainer	**FP-R54114**		Con. Rod, Bearing & Piston codes 4810; For 1.62" pin dia.
6	Pin Bushing	**FP-R114082**		Con. Rod, Bearing & Piston code 4810; w/Con. Rod marked R500335
6	Piston Pin Kit	**FP-RE63915**		Con. Rod, Bearing & Piston codes 4810; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4810; w/Con. Rod marked R500335; From Ser. No. 794,055; Fractured split rod
12	Con. Rod Bolt	**FP-R114083**		Machine split rod
6	Rod Pair	**FP-RE65908**	*STD*	Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335
6	Rod Pair	**FP-RE65909**	*.25MM*	Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-RE66820**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-IFKPT6068**		

Industrial Applications **6068D Eng.** **21**
6.8L 413.8 (6784cc) OHV Diesel L6 (Litre Engine), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R75728**		Rocker cover codes 1102, 1103, 1104
1	Head Gasket	**FP-R114157**		Cyl. head code 5101
1	Head Set	**FP-RE38852**		Cyl. head code 5101
1	Oil Filler Cap Gasket	**FP-T20328**		Rocker arm cover codes 1103, 1104; Oil filler neck codes 1201, 1202, 1203
1	O-Ring	**FP-R56463**		Rocker cover breather tube; Breather tube codes 2902, 2905, 2909, 2912

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-R98062**	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
6	Intake	**FP-R97490**	*15*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
6	Exhaust	**FP-R90692**	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
6	Exhaust	**FP-R97492**	*15*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
24	Keeper	**FP-R91889**		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	**FP-R85687**	*STD*	
6	Int.	**FP-R98335**		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
6	Int.	**FP-R98063**	*STD*	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	**FP-R26125**		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	**FP-RE60005**		Exh. & Int.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	**FP-RE31617**		Exh. & Int.; From Ser. No. 300,000; Positive type
12	Valve Stem Seal	**FP-R87627**		Exh. & Int.; O-Ring type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	**FP-R53108**		3-Hole mount; Starting motor codes 3002, 3007, 3011, 3013, 3015, 3016, 3017, 3018, 3019

(continued on next page)

21 *Industrial Applications* 6068D Eng.
(cont.) 6.8L 413.8 (6784cc) OHV Diesel L6 (Litre Engine), 106mm Bore

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-R90658		
3	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-R97454		Front cover

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
6	Fuel Injector Nozzle	FP-RE36939		w/Injector marked 28484
6	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1622, 1623, 1642, 1643, 1654; Nozzle marked 28484; 9.270MM X 13.600MM X 5.080MM
6	Fuel Injector Nut	FP-R79604		w/Injector marked 28484
12	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1602, 1610, 1612, 1619
6	Washer Type Seal	FP-R48000		Lower; Use w/OEM nozzle RE38087
6	Washer Type Seal	FP-R60746		Upper; Use w/OEM nozzle RE38087

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	FP-R56812		w/Pump housing marked R80168, R90784, R104648, R120869
1	Water Pump Repair/Rebuild Kit	FP-RE19511		w/Pump housing marked R60601, R67741, R67748, R72644, R72748, R73322, R80168, R82787
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Repair/Rebuild Kit	FP-RE70143		From Ser. No. 100,000 to Ser. No. 499,999; w/Cast iron impeller
2	Ball Brg.	FP-JD10329		Fan hub shaft bearing; w/Pump housing marked R120869, R80168
2	Ball Brg.	FP-JD7686		Front/Rear shaft bearing; Pump code 2025; w/Pump housing marked R80168, R120869; w/H/D water pump
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked R80168, R90784, R120869
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R80168, R90783, R90784, R120869
1	Oil Seal	FP-AR90860		Pump code 2025; w/H/D water pump; w/housing marked R80168, R120869
1	Shaft & Bearing Assembly	FP-JD8643		w/Pump housing marked R90784

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat codes 2204, 2209; Thermostat cover code 2102 Vertical, 2108 Horizontal; Housing code 3901; 180 Deg.
1	Thermostat Cover Gasket	FP-R54638		Thermostat cover codes 2102, 2104, 2108; Thermostat housing code 3901; w/Two thermostats
1	Therm. Hsg. - Water Mfld. Gsk	FP-R54641		Thermostat housing to cyl. head
2	O-Ring	FP-R56461		Thermostat housing tube seals; Housing codes 3901, 3905

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		
1	Oil Pan Gasket Set	FP-PG303PS		
2	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"
1	Block to End Plate Front Gskt	FP-R131794		Front plate codes 3601, 3602

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG359S		
1	Complete Overhaul Gasket Set	FP-RE38555		Crankshaft seals not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		From Ser. No. 100,000 to Ser. No. 499,999

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler Gasket	FP-R98485		Bottom cover; Cooler code 5911
1	Oil Cooler Gasket	FP-R27948		Oil cooler core
1	Oil Cooler Gasket	FP-R98484		Top cover; Cooler code 5911
1	Rect. or Square Seal	FP-R70956		Cooler housing; Cooler code 5904; Ten plates; 2.700" X 3.000" X .180"
1	Oil Cooler to Block Gasket	FP-R98489		
1	Oil Cooler Adapter Cover Gskt	FP-R114097		Filter adapter code 5904; From Ser. No. 100,000 to Ser. No. 499,999

(continued on next page)

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE45517**		
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft code 4701; Crankshaft marked R104523, R121027

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		Crankshaft code 4701; Crankshaft marked R104523, R121027
1	O-Ring	**FP-H35244**		Crankshaft pulley; Pulley codes 1303, 1308; Crankshaft, Bearing code 4701; Crankshaft marked R104523, R121027

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		Crankshaft code 4701; Crankshaft marked R104523, R121027

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3006**	*STD*	
1	Main Set	**FP-MBK300610**	*10*	
1	Main Set	**FP-MBK300620**	*20*	
1	Main Set	**FP-MBK300630**	*30*	
6	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
6	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
6	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
6	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	
4	Thrust Washer	**FP-R78598**	*STD*	Use w/Flangeless thrust brg.

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil pump inlet; H/D Pump code 5003
1	O-Ring	**FP-R61871**		Oil pump inlet; Pump codes 5001, 5002, 5005; w/Pump housing marked R54615; From Ser. No. 427,376
2	O-Ring	**FP-R80632**		Oil Pump outlet tube
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck codes 1201, 1202, 1203, 1299
1	Oil Filter Adapter Gasket	**FP-R98488**		w/Filter adapter marked R56189, R91597, R113646, R131238
1	Oil Pump Seal Ring	**FP-R79563**		Oil pump outlet adapter; Pump codes 5001, 5002, 5003, 5004; w/Pump marked R54629

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R121867**	*STD*	
6	Liner w/Sealing Rings	**FP-RE500024**	*STD*	
6	Cylinder Kit Complete	**FP-RE28966**	*STD*	1.62" pin dia.
6	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		
6	Sealing Ring, Liner	**FP-R48767**		Hi-Ring; Rectangle; Top
6	Sealing Ring, Liner	**FP-R26121**		Round; Middle
6	Sealing Ring	**FP-SLR2520**		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-RE28919**	*STD*	Hi-Ring; 1.62" Pin dia.
6	Piston Kit w/Pin & Retainers	**FP-RE28919WP**		Hi-Ring
6	Pin	**FP-R124230**		Hi-Ring; 1.62" pin dia.
12	Piston Pin Retainer	**FP-R54114**		Hi-Ring; For 1.62" pin dia.
6	Pin Bushing	**FP-R57451**		w/Con. Rod marked R56187, R58979, R80032, R113612; Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R74195**		w/Con. Rod marked R54617, R56187, R116851; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	**FP-AR97517**	*STD*	
6	Rod Pair	**FP-AR97653**	*10*	
6	Rod Pair	**FP-AR97654**	*20*	
6	Rod Pair	**FP-AR97655**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-RE507852**	*STD*	Exc. Hi-Ring; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	**FP-RE66820**	*STD*	Exc. Hi-Ring; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-6068DIFK**		w/Con. Rod marked R54617, R56187, R116851; w/Flangeless thrust brg.; Incl. Torque-To-Yield con. rod bolts

(continued on next page)

21 (cont.) *Industrial Applications* 6068D Eng.
6.8L 413.8 (6784cc) OHV Diesel L6 (Litre Engine), 106mm Bore

KITS (cont.)

QTY	OVERHAUL KIT (cont.)	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	FP-6068DOHK		From Ser. No. 100,000 to Ser. No. 499,999; w/Con. Rod marked R56187; Piston pin dia. 1.62"; w/Flangeless thrust brg.; Incl. front & rear seals; Crankshaft code 4701; Crankshaft marked R104523, R121027; Incl. Torque-To-Yield con. rod bolts

22 *Industrial Applications* 6068D PowerTech Eng.
6.8L 413.8 (6784cc) OHV Diesel L6 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123543		
1	Head Gasket	FP-R116516		
1	Head Set	FP-RE66083		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R98062	STD	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
6	Intake	FP-R97490	15	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
6	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
6	Exhaust	FP-R97492	15	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
24	Keeper	FP-R91889		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R85687	STD	
6	Int.	FP-R98335		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
6	Int.	FP-R98063	STD	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE60005		Exh. & Int.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-RE31617		Exh. & Int.; From Ser. No. 300,000; Positive type
12	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3003, 3006, 3010, 3011, 3013, 3025, 3026

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Seal	FP-R92352		Upper packing
6	Washer Type Seal	FP-R48000		Lower packing
11	Washer Type Seal	FP-R51936		Fuel line; Line code 16LR; From Ser. No. 707,096
11	Washer Type Seal	FP-R51936		Fuel line; Line codes 1613, 1614, 1615, 1622, 1623, 1668, 1678, 1686, 1696

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	FP-RE500737 *		Standard flow
1	Water Pump Filter	FP-R98527		w/Pump housing marked RE70683, RE70985

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-RE33705		w/Housing marked T19651, T20218, R60256, R127777; 180 Deg.

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R123354		
2	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

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* New Item — Check For Availability

Industrial Applications **6068D PowerTech Eng.** **22**
6.8L 413.8 (6784cc) OHV Diesel L6 (PowerTech 2V), 106mm Bore **(cont.)**

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE65165	STD	Crankshaft and Bearing code 4702
6	Plain Main Brg.	FP-RE65911	.25MM	Crankshaft and Bearing code 4702
1	Flanged Main Brg.	FP-RE65168	STD	Crankshaft and Bearing code 4702
1	Flanged Main Brg.	FP-RE65912	.25MM	Crankshaft and Bearing code 4702

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R61871		Oil tube from pump to block

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R121867	STD	
6	Liner w/Sealing Rings	FP-RE500024	STD	
6	Cylinder Kit Complete	FP-RE65966	STD	
6	Cyl. Liner Sealing Ring Kit	FP-AR65507		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-RE505101	STD	Con. Rod, Bearing & Piston code 4805
6	Pin	FP-R123178		Con. Rod, Bearing & Piston code 4805; 1.375" pin dia.
12	Piston Pin Retainer	FP-M41029		Con. Rod, Bearing & Piston code 4805; For 1.38" pin dia.
6	Pin Bushing	FP-R123960		Con. Rod, Bearing & Piston code 4805; 1.375" pin dia.
6	Pin Bushing	FP-R114082		Con. Rod, Bearing & Piston code 4810; w/Con. Rod marked R500335

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-RE65908	STD	Con. Rod, Bearing & Piston code 4805; w/Con. Rod marked R123959, R500000
6	Rod Pair	FP-RE65909	.25MM	Con. Rod, Bearing & Piston code 4805; w/Con. Rod marked R123959, R500000

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE66271	STD	

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFKPT6068		

Industrial Applications **6068N PowerTech Eng. (Natural Gas)** **23**
6.8L 413.8 (6784cc) OHV NG L6 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123543		
1	Head Gasket	FP-R116516		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
24	Keeper	FP-R91889		Head & valve code 5113

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		Head & valve code 5113; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE60005		Exh. & Int.; Head & valve code 5113

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-R90658		Exh. manifold, shield code 2817

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Filter	FP-R98527		Water pump code 4404; Pump marked R500401

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-AR72852		Thermostat code 2203; 192 Deg.
1	O-Ring	FP-R26286		Sensor seal; Thermostat codes 2108, 2203

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-U13639		Block coolant drain plug seal; Block code 4604; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		Block code 4604

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23 (cont.) *Industrial Applications* 6068N PowerTech Eng. (Natural Gas)
6.8L 413.8 (6784cc) OHV NG L6 (PowerTech 2V), 106mm Bore

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE65165	STD	Crankshaft and Bearing code 4702; w/Crankshaft marked R116076
6	Plain Main Brg.	FP-RE65911	.25MM	Crankshaft and Bearing code 4702; w/Crankshaft marked R116076
1	Flanged Main Brg.	FP-RE65168	STD	Crankshaft and Bearing code 4702; w/Crankshaft marked R116076
1	Flanged Main Brg.	FP-RE65912	.25MM	Crankshaft and Bearing code 4702; w/Crankshaft marked R116076

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R61871		Oil pump code 5001; Oil pump inlet seal
1	O-Ring	FP-R72328		Vent tube elbow seal; Rocker arm cover code 1104

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR65507		Piston & rod bearing code 4811

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R123177		Piston & rod bearing code 4811; 1.62" pin dia.
12	Piston Pin Retainer	FP-R54114		Piston & rod bearing code 4811; For 1.62" pin dia.
6	Pin Bushing	FP-R114082		Use w/Con. Rod marked R500335
6	Piston Pin Kit	FP-RE63915		Piston & rod bearing code 4811; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R501124		Use w/Con. Rod marked R500335
6	Rod Pair	FP-RE65908	STD	Piston & rod bearing code 4811
6	Rod Pair	FP-RE65909	.25MM	Piston & Rod bearing code 4811

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE507852	STD	Piston & rod bearing code 4811; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	FP-RE66820	STD	Piston & rod bearing code 4811; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

24 *Industrial Applications* 6068TN PowerTech Eng. (Natural Gas)
6.8L 413.8 (6784cc) OHV Turbo-NG L6 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123543		
1	Head Gasket	FP-R116516		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
24	Keeper	FP-R91889		Head & valve code 5113

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		Head & valve code 5113; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE60005		Exh. & Int.; Head & valve code 5113

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-R90658		Exh. manifold, shield code 2817

FUEL SYSTEM & PARTS

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R80632		Turbo oil line code 6529; Oil inlet adapter seal

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Filter	FP-R98527		Water pump code 4404; Pump marked R500401

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-AR72852		Thermostat code 2203; 192 Deg.
1	O-Ring	FP-R26286		Sensor seal; Thermostat codes 2108, 2203

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-U13639		Block coolant drain plug seal; Block code 4604; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		Block code 4604

(continued on next page)

Industrial Applications **6068TN PowerTech Eng. (Natural Gas)** **24**
6.8L 413.8 (6784cc) OHV Turbo-NG L6 (PowerTech 2V), 106mm Bore **(cont.)**

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	**FP-RE65165**	*STD*	Crankshaft and Bearing codes 4702, 4703; w/Crankshaft marked R116076
6	Plain Main Brg.	**FP-RE65911**	*.25MM*	Crankshaft and Bearing codes 4702, 4703; w/Crankshaft marked R116076
1	Flanged Main Brg.	**FP-RE65168**	*STD*	Crankshaft and Bearing codes 4702, 4703; w/Crankshaft marked R116076
1	Flanged Main Brg.	**FP-RE65912**	*.25MM*	Crankshaft and Bearing codes 4702, 4703; w/Crankshaft marked R116076

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil pump code 5001; Oil pump inlet seal
1	O-Ring	**FP-R72328**		Vent tube elbow seal; Rocker arm cover code 1104

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		Piston & rod bearing code 4811

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	**FP-R123177**		Piston & rod bearing code 4811; 1.62" pin dia.
12	Piston Pin Retainer	**FP-R54114**		Piston & rod bearing code 4811; For 1.62" pin dia.
6	Pin Bushing	**FP-R114082**		Use w/Con. Rod marked R500335
6	Piston Pin Kit	**FP-RE63915**		Piston & rod bearing code 4811; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R501124**		Use w/Con. Rod marked R500335
6	Rod Pair	**FP-RE65908**	*STD*	Piston & rod bearing code 4811
6	Rod Pair	**FP-RE65909**	*.25MM*	Piston & rod bearing code 4811

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-RE507852**	*STD*	Piston & rod bearing code 4811; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	**FP-RE66820**	*STD*	Piston & rod bearing code 4811; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

Industrial Applications **6068T PowerTech Eng.** **25**
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R123543**		
1	Head Gasket	**FP-R116516**		
1	Head Set	**FP-RE66083**		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-R98062**	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
6	Intake	**FP-R97490**	*15*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
6	Exhaust	**FP-R90692**	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
6	Exhaust	**FP-R97492**	*15*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
24	Keeper	**FP-R91889**		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	**FP-R85687**	*STD*	
6	Int.	**FP-R98335**		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
6	Int.	**FP-R98063**	*STD*	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	**FP-R26125**		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	**FP-RE60005**		Exh. & Int.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	**FP-RE31617**		Exh. & Int.; From Ser. No. 300,000; Positive type
12	Valve Stem Seal	**FP-R87627**		Exh. & Int.; O-Ring type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	**FP-R53108**		3-Hole mount; Starting motor codes 3003, 3006, 3010, 3011, 3013, 3025, 3026

(continued on next page)

25 *Industrial Applications* 6068T PowerTech Eng.
(cont.) 6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 2V), 106mm Bore

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Nozzle	FP-RE48786		
6	Fuel Injector Seal	FP-R92352		Upper packing
6	Washer Type Seal	FP-R48000		Lower packing
12	Washer Type Seal	FP-R51936		Fuel line; Line codes 1613, 1614, 1615, 1619, 1621, 1622, 1623, 1668, 1678, 1680, 1681, 1685, 1686, 1688, 1697, 160D; To Ser. No. 715,739
12	Washer Type Seal	FP-R51936		Fuel line; Line codes 1619, 1681, 1685, 1686, 1696, 1697, 16CM, 16CN, 16CP, 16CW, 16CX, 16CY, 16DY, 16LS, 16LT, 16LU, 16MG, 16MH, 16ML, 16MM

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	FP-RE500737 *		Standard flow
1	Water Pump Filter	FP-R98527		w/Pump housing marked RE70683, RE70985

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE65165	STD	Crankshaft and Bearing codes 4702, 4703
6	Plain Main Brg.	FP-RE65911	.25MM	Crankshaft and Bearing codes 4702, 4703
1	Flanged Main Brg.	FP-RE65168	STD	Crankshaft and Bearing codes 4702, 4703
1	Flanged Main Brg.	FP-RE65912	.25MM	Crankshaft and Bearing codes 4702, 4703

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R61871		Oil tube from pump to block

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R121867	STD	
6	Liner w/Sealing Rings	FP-RE500024	STD	
6	Cylinder Kit Complete	FP-RE507850	STD	Con. Rod Bearing & Piston code 4810
6	Cylinder Kit Complete	FP-RE507920	STD	Con. Rod, Bearing & Piston codes 4807
6	Cyl. Liner Sealing Ring Kit	FP-AR65507		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-RE55512	STD	Con. Rod Bearing & Piston code 4810
6	Piston Body w/o Pin	FP-RE505100	STD	Con. Rod, Bearing & Piston codes 4807
6	Pin	FP-R123178		Con. Rod, Bearing & Piston code 4807; 1.375" pin dia.
6	Pin	FP-R123177		Con. Rod, Bearing & Piston codes 4810; 1.62" pin dia.
12	Piston Pin Retainer	FP-M41029		Con. Rod, Bearing & Piston codes 4805, 4807; For 1.38" pin dia.
12	Piston Pin Retainer	FP-R54114		Con. Rod, Bearing & Piston codes 4810; For 1.62" pin dia.
6	Pin Bushing	FP-R114082		Con. Rod, Bearing & Piston code 4810; w/Con. Rod marked R500335
6	Pin Bushing	FP-R123960		Con. Rod, Bearing & Piston codes 4807, 4810; w/Con. Rod marked R500000, R123959; 1.375" pin dia.
6	Piston Pin Kit	FP-RE63915		Con. Rod, Bearing & Piston codes 4810; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R114083		Cyl. Liner code 4807; w/Con. Rod marked R123959; To Ser. No. 794,054
12	Con. Rod Bolt	FP-R501124		Cyl. Liner code 4807,4810; w/Con. Rod marked R500000, R500335; From Ser. No. 794,055
12	Con. Rod Bolt	FP-R114083		Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335; From Ser. No. 794,055
6	Rod Pair	FP-RE65908	STD	Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335
6	Rod Pair	FP-RE65909	.25MM	Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE66271	STD	Piston & Liner code 4807
6	Ring Set Single Cylinder	FP-RE507852	STD	Piston & Liner code 4810; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

(continued on next page)

* New Item — Check For Availability

Industrial Applications **6068T PowerTech Eng.** **25**
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 2V), 106mm Bore **(cont.)**

CYLINDER COMPONENTS (cont.)

QTY	PISTON RINGS (cont.)	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-RE66820**	*STD*	Piston & Liner code 4810; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-IFKPT6068**		Con. Rod, Bearing & Piston codes 4807

Industrial Applications **6414D Eng.** **26**
6.8L 414 OHV Diesel L6 (Standard), 4.1875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R75728**		Rocker cover codes 1102, 1103; From Ser. No. 608,511
1	Valve Cover Gasket	**FP-T20467**		To Ser. No. 103,088
1	Head Gasket	**FP-R114157**		From Ser. No. 100,001; Manufactured after 1983
1	Head Gasket	**FP-R114157**		From Ser. No. 290,001 to Ser. No. 621,172; Manufactured 1974-83
1	Head Set	**FP-RE38852**		From Ser. No. 100,001; Manufactured after 1983
1	Head Set	**FP-RE38852**		From Ser. No. 290,001 to Ser. No. 621,172; Manufactured 1974-83

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-R89219**	*STD*	Optional Non-Stellite; 1 groove; Chrome plated stem; 1.8210" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Intake	**FP-R83071**	*STD*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3720" Stem Dia., 5.1660" O.A.L.
6	Intake	**FP-R89223**	*3*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3750" Stem Dia., 5.1660" O.A.L.
6	Intake	**FP-R89224**	*15*	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3870" Stem Dia., 5.1660" O.A.L.
6	Intake	**FP-R79623**	*STD*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Intake	**FP-R79628**	*3*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
6	Intake	**FP-R79629**	*15*	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
6	Intake	**FP-R79630**	*30*	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
6	Exhaust	**FP-R79624**	*STD*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Exhaust	**FP-R79625**	*3*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
6	Exhaust	**FP-R79626**	*15*	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
6	Exhaust	**FP-R79627**	*30*	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
24	Keeper	**FP-41339**		1 groove; Square cut key groove
24	Keeper	**FP-T20077**		1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	**VK-138B**		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	**FP-R51734**	*STD*	
6	Int.	**FP-R73064**	*STD*	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	**FP-R26125**		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	**FP-RE11410**		Exh.
1	Bushing	**FP-T26321**		Lower
1	Bushing	**FP-T20034**		Upper
1	Oil Filler Cap Gasket	**FP-T20328**		Rocker arm cover code 1103

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	**FP-R87627**		Exh. & Int.; O-Ring type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	**FP-R53108**		3-Hole mount; Starting motor codes 3002, 3011, 3013, 3016, 3017, 3018

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	**FP-JD9449**		Front; w/24 Volt alternator conversion
1	Ball Brg.	**FP-JD9449**		Front; Delco-Remy No. 1102936; Code 3105; 12 Volt, 61 amp alternator

(continued on next page)

26 (cont.) *Industrial Applications* 6414D Eng.
6.8L 414 OHV Diesel L6 (Standard), 4.1875" Bore

ELECTRICAL (cont.)

QTY	ALTERNATOR (cont.)	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Delco-Remy Nos. 1100490, 1102932, 1105174; Code 3103; 12 Volt, 72 amp alternator
1	Ball Brg.	FP-JD9449		Front; Delco-Remy Nos. 1100491, 1100580; Code 3102; 12 Volt, 55 amp alternator
1	Ball Brg.	FP-JD9449		Front; Motorola No. 8TA2009ES; Code 3104; 12 Volt, 30 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola No. 70D42179T02; 24 Volt alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola Replacement Nos. 8EM2009NA, 8EM2009NB alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-R90658		
2	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
12	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
6	Fuel Injector Nozzle	FP-RE37503		Nozzle codes 1602, 1603; From Ser. No. 100,001; Manufactured after 1983
6	Fuel Injector Nozzle	FP-RE37503		Nozzle codes 1602, 1603, 1605; From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
6	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1602, 1603; 9.270MM X 13.600MM X 5.080MM
6	Fuel Injector Seal	FP-R92352		Upper packing; w/Stanadyne® nozzle No. 26993
6	Fuel Injector Nut	FP-R79604		w/Injector marked 20291, 22205, 22264, 26993
12	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1602, 1603, 1607
6	Washer Type Seal	FP-R48000		Lower; w/Nozzle codes 1602, 1603
6	Washer Type Seal	FP-R60746		Upper; Nozzle codes 1602, 1603

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Transfer pump
1	Fuel Transfer Pump Gasket	FP-R97350		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
2	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	FP-R56809		w/Pump housing marked R56813, R90784, R104648
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked R56813, R90784, R104648
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R56813, R90784, R104648

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2204; Thermostat cover code 2102 Vertical; Housing code 2108 Horizontal, 3901 Vertical; 180 Deg.
1	Therm. Hsg. - Water Mfld. Gsk	FP-R54641		Thermostat housing to cyl. head
2	O-Ring	FP-R56461		Thermostat housing tube seals; Housing code 3901

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	FP-R97351		From Ser. No. 100,001; Manufactured after 1983
1	Flywheel Housing Gasket	FP-R97351		From Ser. No. 290,000 to Ser. No. 621,172
1	Oil Pan Gasket	FP-R97344		From Ser. No. 100,000; Manufactured after 1983
1	Oil Pan Gasket	FP-R97344		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	Oil Pan Gasket Set	FP-PG303PS		From Ser. No. 100,000; Manufactured after 1983
1	Oil Pan Gasket Set	FP-PG303PS		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	Block to End Plate Front Gskt	FP-R131794		From Ser. No. 100,001; Manufactured after 1983
1	Block to End Plate Front Gskt	FP-R131794		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

(continued on next page)

ENGINE BLOCK & PARTS (cont.)

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	**FP-PG359S**		
1	Complete Overhaul Gasket Set	**FP-RE38555**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE38555WS**		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-A4730R**		From Ser. No. 100,001; Manufactured after 1983; Oil cooler to block check valve seal
1	O-Ring	**FP-A4730R**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83; Oil cooler to block check valve seal
1	O-Ring	**FP-R56814**		Oil cooler housing inner seal; From Ser. No. 128,418
1	O-Ring	**FP-R56192**		Oil cooler housing inner seal; To Ser. No. 128,417
1	O-Ring	**FP-R56193**		Oil cooler housing outer seal; To Ser. No. 128,417
1	Oil Cooler to Block Gasket	**FP-R98489**		From Ser. No. 620,694
1	Oil Cooler to Head Gasket	**FP-R98834**		From Ser. No. 100,000; Manufactured after 1983
1	Oil Cooler to Head Gasket	**FP-R98834**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE45517**		
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft codes 1302; Crankshaft marked R104523, R108679, R54619

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		
1	O-Ring	**FP-H35244**		Crankshaft pulley; Pulley codes 1302, 1308, 1314, 1338, 4101

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		Crankshaft codes 1303, 1308; Flywheel housing codes 1403, 1405, 1421, 1422, 1425

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3006**	*STD*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300610**	*10*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300620**	*20*	w/Flanged thrust brg.
1	Main Set	**FP-MBK300630**	*30*	w/Flanged thrust brg.
6	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
6	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
6	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
6	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil pump inlet; w/Pump housing marked R54629
2	O-Ring	**FP-R80632**		Oil Pump outlet tube
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck code 1200
1	Oil Filter Adapter Gasket	**FP-R98488**		w/Filter adapter marked R91597, R131238; From Ser. No. 128,418
1	Oil Pump Seal Ring	**FP-R79563**		Oil pump outlet adapter; w/Pump marked R54629; To Ser. No. 122,430

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R121867**	*STD*	
6	Liner w/Sealing Rings	**FP-RE500024**	*STD*	
6	Cylinder Kit Complete	**FP-RE19833**	*STD*	w/Con. Rod marked R56187
6	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		
6	Sealing Ring, Liner	**FP-R48767**		Rectangle; Top
6	Sealing Ring, Liner	**FP-R26121**		Round; Middle
6	Sealing Ring	**FP-SLR2520**		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-AR68188**	*STD*	1.62" pin dia.
6	Piston Kit w/Pin & Retainers	**FP-AR68188WP**	*STD*	1.62" pin dia.
6	Pin	**FP-R124230**		1.62" pin dia.
12	Piston Pin Retainer	**FP-R54114**		For 1.62" pin dia.
6	Pin Bushing	**FP-R57451**		w/Con. Rod marked R56187, R58979; Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.

(continued on next page)

26 (cont.) *Industrial Applications* 6414D Eng.
6.8L 414 OHV Diesel L6 (Standard), 4.1875" Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R74195		w/Con. Rod marked R54617, R56187, R116851; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	FP-AR97517	STD	
6	Rod Pair	FP-AR97653	10	
6	Rod Pair	FP-AR97654	20	
6	Rod Pair	FP-AR97655	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE507852	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	FP-RE66820	STD	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-414DIFK		w/Con. Rod marked R56187, R116851; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-414DOHK		w/Con. Rod marked R56187, R116851; Pin dia. 1.62"; Incl. Torque-To-Yield con. rod bolts

27 *Industrial Applications* 6414T Eng.
6.8L 414 OHV Turbo-Diesel L6 (Standard), 4.1875" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R75728		Rocker cover codes 1102, 1103; From Ser. No. 608,511
1	Valve Cover Gasket	FP-T20467		To Ser. No. 608,510
1	Head Gasket	FP-R114157		From Ser. No. 100,001; Manufactured after 1983
1	Head Gasket	FP-R114157		From Ser. No. 290,001 to Ser. No. 621,172; Manufactured 1974-83
1	Head Set	FP-RE38852		From Ser. No. 100,001; Manufactured after 1983
1	Head Set	FP-RE38852		From Ser. No. 290,001 to Ser. No. 621,172; Manufactured 1974-83

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R89219	STD	Optional Non-Stellite; 1 groove; Chrome plated stem; 1.8210" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Intake	FP-R83071	STD	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3720" Stem Dia., 5.1660" O.A.L.
6	Intake	FP-R89223	3	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3750" Stem Dia., 5.1660" O.A.L.
6	Intake	FP-R89224	15	Stellite; 2 groove; Chrome plated stem; 1.8210" Head Dia., .3870" Stem Dia., 5.1660" O.A.L.
6	Intake	FP-R79623	STD	2 groove; Chrome plated stem; 1.7720" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Intake	FP-R79628	3	2 groove; Chrome plated stem; 1.7720" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
6	Intake	FP-R79629	15	2 groove; Chrome plated stem; 1.7720" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
6	Intake	FP-R79630	30	2 groove; Chrome plated stem; 1.7720" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
6	Exhaust	FP-R79624	STD	1 groove; Chrome plated stem; 1.5750" Head Dia., .3720" Stem Dia., 5.1560" O.A.L.
6	Exhaust	FP-R79625	3	1 groove; Chrome plated stem; 1.5750" Head Dia., .3750" Stem Dia., 5.1560" O.A.L.
6	Exhaust	FP-R79626	15	1 groove; Chrome plated stem; 1.5750" Head Dia., .3870" Stem Dia., 5.1560" O.A.L.
6	Exhaust	FP-R79627	30	1 groove; Chrome plated stem; 1.5750" Head Dia., .4020" Stem Dia., 5.1560" O.A.L.
24	Keeper	FP-41339		1 groove; Square cut key groove
24	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened
24	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R51734	STD	
6	Int.	FP-R73064	STD	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE11410		Exh. & Int.
1	Bushing	FP-T26321		Lower
1	Bushing	FP-T20034		Upper

(continued on next page)

CYL. HEAD & PARTS (cont.)

QTY	VALVE MISC. (cont.)	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover code 1103

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-R87627		O-Ring type

QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56463		Rocker cover breather tube; Breather tube codes 2909, 2915

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3002, 3011, 3013, 3016, 3017, 3018

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; w/24 Volt alternator conversion
1	Ball Brg.	FP-JD9449		Front; Delco-Remy No. 1102936; Code 3105; 12 Volt, 61 amp alternator
1	Ball Brg.	FP-JD9449		Front; Delco-Remy Nos. 1100490, 1102932, 1105174; Code 3103; 12 Volt, 72 amp alternator
1	Ball Brg.	FP-JD9449		Front; Delco-Remy Nos. 1100491, 1100580; Code 3102
1	Ball Brg.	FP-JD9449		Front; Motorola No. 8TA2009ES; Code 3104; 12 Volt, 30 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola No. 70D42179T02; 24 Volt alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola Replacement Nos. 8EM2009NA, 8EM2009NB alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-R90658		
3	Air Intake Gasket	FP-R81275		

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Timing Gear Cover Gasket	FP-T20273		Access cover
1	Timing Gear Cover Gasket	FP-R97454		Front cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
12	Lifter	FP-T20073		

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R125066		Gear cover
6	Fuel Injector Nozzle	FP-RE37503		Nozzle codes 1602, 1603; From Ser. No. 100,001; Manufactured after 1983
6	Fuel Injector Nozzle	FP-RE37503		Nozzle codes 1602, 1603; From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
6	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1602, 1603; 9.270MM X 13.600MM X 5.080MM
6	Fuel Injector Seal	FP-R92352		Upper packing; w/Stanadyne® nozzle No. 26993
6	Fuel Injector Nut	FP-R79604		w/Injector marked 20291, 22205, 22264, 26993
12	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1602, 1603, 1609
6	Washer Type Seal	FP-R48000		Lower; w/Nozzle codes 1602, 1603; w/Nozzle marked 26933
6	Washer Type Seal	FP-R60746		Upper; Nozzle codes 1602, 1603

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-RE42211		Transfer pump
1	Fuel Transfer Pump Gasket	FP-R97350		

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		w/Turbo oil line codes 6504, 6530
1	Turbocharger Mounting Gasket	FP-R89879		
1	Turbocharger Oil Supply Gskt.	FP-R97348		From Ser. No. 100,001 to Ser. No. 148,514; Manufactured 1983-86
1	Turbocharger Oil Supply Gskt.	FP-R97348		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R47191		w/Pump housing marked R66420, R68733
1	Water Pump Repair/Rebuild Kit	FP-RE62661		w/Pump housing marked R66420, R68733
1	Water Pump Housing Gasket	FP-R56809		
1	Water Pump Mounting Gasket	FP-T20243		w/Pump housing marked R56813, R90784, R104648

(continued on next page)

27 (cont.) *Industrial Applications* **6414T Eng.**
6.8L 414 OHV Turbo-Diesel L6 (Standard), 4.1875" Bore

COOLING SYSTEM (cont.)

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Therm. Hsg. - Water Mfld. Gsk	**FP-R54641**		Thermostat housing to cyl. head
2	O-Ring	**FP-R56461**		Thermostat housing tube seals; Housing code 3901

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Flywheel Housing Gasket	**FP-R97351**		From Ser. No. 100,001; Manufactured after 1983
1	Flywheel Housing Gasket	**FP-R97351**		From Ser. No. 290,000 to Ser. No. 621,172
1	Oil Pan Gasket	**FP-R97344**		
1	Oil Pan Gasket Set	**FP-PG303PS**		From Ser. No. 100,000; Manufactured after 1983
1	Oil Pan Gasket Set	**FP-PG303PS**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83
1	Oil Seal Kit	**FP-AR101549**		Water pump; w/Pump housing marked R56813, R90784, R104648
1	Block to End Plate Front Gskt	**FP-R131794**		From Ser. No. 100,001; Manufactured after 1983
1	Block to End Plate Front Gskt	**FP-R131794**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	**FP-PG359S**		
1	Complete Overhaul Gasket Set	**FP-RE38555**		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE38555WS**		Incl. crankshaft seals; Rear main brg. seal incl.; Wear sleeve not incl.

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-A4730R**		From Ser. No. 100,001; Manufactured after 1983; Oil cooler to block check valve seal
1	O-Ring	**FP-A4730R**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83; Oil cooler to block check valve seal
1	O-Ring	**FP-R56814**		Oil cooler housing inner seal; From Ser. No. 138,460
1	O-Ring	**FP-R56192**		Oil cooler housing inner seal; To Ser. No. 138,459
1	O-Ring	**FP-R56193**		Oil cooler housing outer seal; To Ser. No. 138,459
1	Oil Cooler Cover Gasket	**FP-R98471**		
1	Oil Cooler to Block Gasket	**FP-R98489**		From Ser. No. 620,694
1	Oil Cooler to Head Gasket	**FP-R98834**		From Ser. No. 100,001; Manufactured after 1983
1	Oil Cooler to Head Gasket	**FP-R98834**		From Ser. No. 290,000 to Ser. No. 621,172; Manufactured 1974-83

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE45517**		
1	Oil Seal Kit	**FP-SK67942**		Incl. front & rear seals; Crankshaft code 1302; Crankshaft marked R104523, R108679, R54619

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Seal	**FP-AR67942**		
1	O-Ring	**FP-H35244**		Crankshaft pulley; Pulley codes 1302, 1308, 1314, 1338, 4101

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		Crankshaft codes 1302, 1308; Flywheel housing codes 1403, 1405, 1421, 1422, 1425

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK3006**	*STD*	
1	Main Set	**FP-MBK300610**	*10*	
1	Main Set	**FP-MBK300620**	*20*	
1	Main Set	**FP-MBK300630**	*30*	
6	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
6	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
6	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
6	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil pump inlet; w/Pump housing marked R54629
2	O-Ring	**FP-R80632**		Oil Pump outlet tube
1	Oil Filler Inlet Gasket	**FP-R97352**		Oil filler neck code 1200
1	Oil Pump Seal Ring	**FP-R79563**		Oil pump outlet adapter; w/Pump marked R54629; To Ser. No. 122,430

(continued on next page)

Industrial Applications **6414T Eng.** **27**
6.8L 414 OHV Turbo-Diesel L6 (Standard), 4.1875" Bore **(cont.)**

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R121867**	*STD*	
6	Liner w/Sealing Rings	**FP-RE500024**	*STD*	
6	Cylinder Kit Complete	**FP-RE19832**	*STD*	w/Con. Rod marked R56187; Pin dia. 1.62"
6	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		
6	Sealing Ring, Liner	**FP-R48767**		Rectangle; Top
6	Sealing Ring, Liner	**FP-R26121**		Round; Middle
6	Sealing Ring	**FP-SLR2520**		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-AR96389**		
6	Piston Kit w/Pin & Retainers	**FP-AR96389WP**		w/Con. Rod marked 56187
6	Pin	**FP-R124230**		1.62" pin dia.
12	Piston Pin Retainer	**FP-R54114**		For 1.62" pin dia.
6	Pin Bushing	**FP-R57451**		w/Con. Rod marked R56187, R58979; Pin dia. 1.62"; 1.621" ID, 1.813" OD, 1.370" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R74195**		w/Con. Rod marked R54617, R56187, R116851; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	**FP-AR97517**	*STD*	
6	Rod Pair	**FP-AR97653**	*10*	
6	Rod Pair	**FP-AR97654**	*20*	
6	Rod Pair	**FP-AR97655**	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-RE507852**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	**FP-RE66820**	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-414TIFK**		w/Con. Rod marked R56187, R116851; Pin dia. 1.62"; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-414TOHK**		w/Con. Rod marked R56187, R116851; Pin dia. 1.62"; Incl. Torque-To-Yield con. rod bolts

Industrial Applications **6466A, 6466T Engs.** **28**
7.6L 466 OHV Turbo-Diesel L6 (Standard), 4.5625" Bore

CYL. HEAD & PARTS

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	**FP-T20328**		6466A Engs.

INT & EXH MANIFOLDS

QTY	AIR INTAKE	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R50406**		Manifold coupling; Aftercooled; Small end; Manifold codes 1705, 1707, 1719, 1726, 1730; To Ser. No. 67,684
1	O-Ring	**FP-R50406**		Manifold coupling; Small end; From Ser. No. 67,684

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft	**FP-R71529**		Cam marked R64086, R71529, R77259; From Ser. No. 67,685
12	Lifter	**FP-R52773**		
1	Prelube	**55-400**		4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.

QTY	CAMSHAFT KIT	PART NO.	SIZE	DESCRIPTION
1	Cam/Lifter Kit	**FP-AR100385**		Cam marked R64086, R71529, R77259; From Ser. No. 67,685; Incl. (12) FP-R52773, (1) FP-R71529

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Shaft	**FP-R82052**		6466A Engs.; w/Pump housing marked R69945
1	Water Pump Shaft	**FP-R70965**		6466A Engs.; Water pump code 2014; w/Pump marked R71224, R83561; Gear driven pump
1	Water Pump Impeller	**FP-R71225**		w/Pump housing marked R71224, R83561
1	Water Pump Impeller	**FP-R77388**		6466A Engs.; w/Pump housing marked R61439; From Ser. No. 211,132
1	Water Pump Impeller	**FP-R50411**		6466T Engs.; w/Pump housing marked R50408
1	Water Pump Repair/Rebuild Kit	**FP-RE69846**		w/Pump housing marked R71224; Gear driven pump
1	Water Pump Repair/Rebuild Kit	**FP-RE69847**		w/Pump housing marked R83561; Gear driven pump
1	Water Pump Repair/Rebuild Kit	**FP-AR103451**		6466A Engs.; w/Pump housing marked R69945
1	Water Pump Repair/Rebuild Kit	**FP-RE10967**		6466A Engs.; Pump code 2001

(continued on next page)

28 (cont.) *Industrial Applications* 6466A, 6466T Engs.
7.6L 466 OHV Turbo-Diesel L6 (Standard), 4.5625" Bore

COOLING SYSTEM (cont.)

QTY	WATER PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Water Pump Repair/Rebuild Kit	FP-925750411		6466T Engs.; w/Pump housing marked R50408
1	Water Pump Repair/Rebuild Kit	FP-935550411		6466T Engs.; w/Pump housing marked R54955
2	Ball Brg.	FP-JD10329		Fan hub shaft bearing
1	Ball Brg.	FP-JD10171		Front bearing; 6466A Engs.; w/Pump housing marked R71224
1	Ball Brg.	FP-JD10363		Gear driven front bearing; Water pump code 2014; w/Pump housing marked R83561
1	Ball Brg.	FP-JD10362		Gear driven rear bearing; Water pump code 2014; w/Pump housing marked R83561
1	Ball Brg.	FP-JD10113		Rear bearing; 6466A Engs.; w/Pump housing marked R71224
1	Water Pump Housing Gasket	FP-R69944		6466A Engs.; w/Pump housing marked R69945
1	Water Pump Housing Gasket	FP-R61437		6466A Engs.; w/Water pump AR98552; To Ser. No. 211,131
1	Water Pump Housing Gasket	FP-R61437		6466A Engs.; w/Water pump RE10969; From Ser. No. 211,132
1	Water Pump Housing Gasket	FP-R50410		6466T Engs.; w/Pump housing marked R50408
1	Oil Seal Kit	FP-AR101549		Water Pump; w/Pump housing marked R50408
1	Water Pump Mounting Gasket	FP-R71315		w/Pump housing marked R71224, R83561; From Ser. No. 67,685
1	Water Pump Inlet Gasket	FP-R71361		w/Pump housing marked R71224, R83561; From Ser. No. 67,685
1	Water Pump Spacer Gasket	FP-R42406		w/Pump housing marked R50408, R58713
1	Oil Seal	FP-RE39134		Water pump code 2014; w/Pump housing marked R71224, R83561
1	O-Ring	FP-R72328		Water tube to thermostat housing seal; Turbo line codes 6501, 6502
1	O-Ring	FP-R71596		Pump cover; w/Pump housing marked R71224, R83561
1	O-Ring	FP-R47153		Water manifold; Water manifold codes 2107, 2108
2	O-Ring	FP-R47153		Water manifold; Water manifold codes 3904, 3905
2	O-Ring	FP-R47153		Water pump tube; Pump code 2014
1	Shaft & Bearing Assembly	FP-JD9257		w/Pump housing marked R58713; To Ser. No. 211,131
1	Shaft & Bearing Assembly	FP-JD10238		w/Pump housing marked R61439; From Ser. No. 211,132
1	Water Pump Hub	FP-JD10058		w/Fan Hub bearing codes 2300, 2306, 2307, 2309, 2310, 2314
1	Water Pump Filter	FP-R98527		w/Pump housing marked R71224, R83561

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat codes 2101, 2103, 2107, 2108, 2204; 180 Deg.
2	Thermostat	FP-AR72852		Thermostat codes 2102, 2103; Thermostat housing code 3905; 192 Deg.
1	Thermostat Cover Gasket	FP-R46479		Thermostat cover codes 2101, 2102, 2103, 2104, 2107, 2108; Two hole
1	Therm. Hsg. - Water Mfld. Gsk	FP-R86062		Thermostat housing to cyl. head

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
1	Water Line Gasket	FP-R97346		w/Int. manifold R59747, R92644; From Ser. No. 67,685
2	Water Manifold Mounting Gskt.	FP-R88397		
1	Cyl. Block Water Hole Cvr Gsk	FP-R43595		Cyl. head water opening cover gskt.

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R71918		
1	Oil Pan Gasket	FP-R49377		6466A Engs.; w/Alum. oil pan w/deep sump; Oil pan codes 1906, 1908, 1922
1	Oil Pan Gasket Set	FP-PG401PS		From Ser. No. 67,685; w/Cast iron oil pan
1	Oil Pan Gasket Set	FP-PG400PS		6466A Engs.; From Ser. No. 67,685; w/Cast iron oil pan

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket Set	FP-466A		6466A Engs.; From Ser. No. 67,685
2	Aftercooler Gasket	FP-R97347		6466A Engs.; From Ser. No. 67,685
2	O-Ring	FP-R52811		6466A Engs.; Intercooler inlet & outlet tube seals; Int. manifold codes 1705, 1707, 1719, 1726
4	O-Ring	FP-R47153		Cooler tube
1	Oil Cooler Bypass Gasket	FP-R65055		
1	Oil Cooler Cover Gasket	FP-R50419		

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-AR49025		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE22764		PTFE

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R50405		Intake coupling; 6466A Engs.; Large end; Int. manifold codes 1705, 1707, 1719, 1726, 1730
2	O-Ring	FP-R71732		Pump; Pump codes 1904, 1906, 1908, 1922; w/Pump marked R62946, R124328; From Ser. No. 169,337

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CRANKSHAFT/OIL PUMP (cont.)

QTY	OIL PUMP (cont.)	*PART NO.*	SIZE	DESCRIPTION
4	O-Ring	**FP-R71732**		Pump; Pump codes 1904, 1908; w/Pump marked R57556; To Ser. No. 169,336
2	O-Ring	**FP-R71732**		Pump; 6466A Engs.; Pump codes 1904, 1906, 1907, 1908, 1922; w/Pump marked R62946, R124328
1	O-Ring	**FP-R71732**		Pump to block; Block codes 4602, 4603; From Ser. No. 169,337
1	O-Ring	**FP-R495R**		Ventilator tube; 6466A Engs.; Smooth
1	Oil Pump Cover Gasket	**FP-R52049**		6466A Engs.; Oil pump codes 1904, 1907; From Ser. No. 169,337
1	Oil Pump Cover Gasket	**FP-R52049**		6466A Engs.; Oil pump codes 1904, 1908; To Ser. No. 169,336
1	Oil Pump Intake Gasket	**FP-R100569**		6466A Engs.; w/Oil pump housing marked R124328
1	Rect. or Square Seal	**FP-R43660**		Filter to housing; 6466A Engs.; Filter & body codes 1601, 1606, 1608; w/housing marked R54561, R59483, R62110, R67409, R71484, R84946
1	Oil Filter to Block Gasket	**FP-R43774**		6466A Engs.; w/Filter housing marked R67409, R71484, R84946

CYLINDER COMPONENTS

QTY	PISTONS	*PART NO.*	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-AR93629**	*STD*	To Ser. No. 253,372
6	Piston Body w/o Pin	**FP-AR100673**	*STD*	6466A Engs.; Piston code 4806; From Ser. No. 233,593 to Ser. No. 317,858
6	Piston Body w/o Pin	**FP-AR100616**	*STD*	6466A Engs.; Piston Code 4807; From Ser. No. 317,859
6	Piston Body w/o Pin	**FP-AR93629**	*STD*	6466A Engs.; To Ser. No. 253,372
6	Piston Body w/o Pin	**FP-AR100616**	*STD*	6466T Engs.; From Ser. No. 67,685
6	Piston Kit w/Pin & Retainers	**FP-AR100673WP**	*STD*	6466A Engs.; Piston code 4806; From Ser. No. 233,593 to Ser. No. 317,858
6	Piston Kit w/Pin & Retainers	**FP-AR100616WP**	*STD*	6466A Engs.; Piston Code 4807; From Ser. No. 317,859
6	Piston Kit w/Pin & Retainers	**FP-AR93629WP**	*STD*	6466A Engs.; To Ser. No. 253,372
6	Piston Kit w/Pin & Retainers	**FP-AR100616WP**	*STD*	6466T Engs.; From Ser. No. 67,685
6	Piston Kit w/Pin & Retainers	**FP-AR93629WP**	*STD*	6466T Engs.; To Ser. No. 67,684
6	Pin	**FP-R57771**		
12	Piston Pin Retainer	**FP-E1343FN**		
6	Pin Bushing	**FP-R60724**		6466A Engs.; w/Con. Rod marked R67320; From Ser. No. 233,592; w/1.875" ID, 2.0622" OD, 1.657" O.A.L.
6	Pin Bushing	**FP-R74008**		6466A Engs.; w/Con. Rod marked R71074; From Ser. No. 67,685; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.
6	Pin Bushing	**FP-R60724**		6466T Engs.; w/Con. Rod marked R57303, R67320; To Ser. No. 253,372; w/1.875" ID, 2.0622" OD, 1.657" O.A.L.
6	Pin Bushing	**FP-R74008**		6466T Engs.; w/Con. Rod marked R71074; From Ser. No. 253,373; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	*PART NO.*	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R66452**		w/Con. Rod marked R57303, R67320, R71074; Torque-To-Yield bolt; Replacement recommended

KITS

QTY	OVERHAUL KIT	*PART NO.*	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-466AHPIFK**		Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-466TAEIFK**		6466A Engs.; w/Con. Rod marked R67320; To Ser. No. 67,684; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-466TALIFK**		6466A Engs.; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-466TAEIFK**		6466T Engs.; w/Con. Rod marked R57303, R67320; To Ser. No. 253,372; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-466TALIFK**		6466T Engs.; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-466TAEOHK**		6466A Engs.; w/Con. Rod marked R67320; From Ser. No. 233,592; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-466TALOHK**		6466A Engs.; w/Con. Rod marked R71074; From Ser. No. 67,685; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-466AHPOHK**		6466A Engs.; Piston code 4806; w/Con. Rod marked R71074; From Ser. No. 233,593 to Ser. No. 317,858; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-466TAEOHK**		6466T Engs.; w/Con. Rod marked R57303, R67320; To Ser. No. 253,372; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	**FP-466TALOHK**		6466T Engs.; w/Con. Rod marked R71074; From Ser. No. 253,373; Incl. Torque-To-Yield con. rod bolts

29 *Industrial Applications* 6076D Eng.
7.6L 465.9 (7638cc) OHV Diesel L6 (Litre Engine), 115mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	FP-RE47336		From Ser. No. 500,000
1	Head Set	FP-RG22248		From Ser. No. 500,000

QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
11	Head Bolt	FP-R88043		To Ser. No. 499,999; 5.250" length
8	Head Bolt	FP-R88044		To Ser. No. 499,999; 6.250" length
7	Head Bolt	FP-R88045		To Ser. No. 499,999; 7.250" length

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R84618	*STD*	1 groove; Chrome plated stem; 2.0080" Head Dia., .3730" Stem Dia., 6.0600" O.A.L.
6	Intake	FP-R93308	*3*	1 groove; Chrome plated stem; 2.0080" Head Dia., .3760" Stem Dia., 6.0600" O.A.L.
6	Exhaust	FP-R84619	*STD*	1 groove; Chrome plated stem; 1.8500" Head Dia., .3720" Stem Dia., 6.1780" O.A.L.
6	Exhaust	FP-R93311	*3*	1 groove; Chrome plated stem; 1.8500" Head Dia., .3750" Stem Dia., 6.1780" O.A.L.
12	Valve Stem Cap	FP-T20129		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R84976	*STD*	
6	Exh.	FP-R93349	*10*	
6	Int.	FP-R84977	*STD*	
6	Int.	FP-R93350	*10*	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R91822		

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE11410		Exh. & Int.
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover codes 1101, 1103, 2904, 2908; Oil filler neck codes 1208, 6209

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3004, 3005, 3011, 3016

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Delco-Remy components; Code 3132; 24 Volt, 40 amp alternator
1	Ball Brg.	FP-JD9449		Front; Delco-Remy No. 1101345; Code 3114; 12 Volt, 78 amp alternator
1	Ball Brg.	FP-JD9449		Front; Nippondenso components; Code 3143; 12 Volt, 90 amp Poly-Vee alternator
1	Ball Brg.	FP-JD9449		Front; Nippondenso components; 12 Volt, 90 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola No. 70D42179T02; Code 3106; 24 Volt, 45 amp alternator

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R79915		Tach sensor seal to cover; Codes 4402, 4420

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Intake Manifold Gasket	FP-R130573		From Ser. No. 500,000; w/Int. manifolds R89790, R115393, R130718, R131473, R131651, R131657, R132290, R134429
3	Intake Manifold Gasket	FP-R130573		To Ser. No. 499,999; w/Int. manifolds R89790, R96518

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	FP-R26058		To Ser. No. 499,999

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R53901		Control valve seal to housing; Pump housing codes 1601, 1604, 1637, 1688, 1689; Filter & line codes 3511, 3512
1	Washer	FP-R53899		Fuel filter codes 3511, 3512
6	Washer	FP-R84472		Injector nozzle; Fuel inj. nozzle & line codes 1604, 1610, 1616, 1650; .290" X .715" X .079"
6	Washer	FP-R84472		Injector nozzle; Nozzle codes 1610, 1626, 1637, 1640, 1650; To Ser. No. 586,899; .290" X .715" X .079"
6	Fuel Injector Nut	FP-R79604		Inj. pump; Line codes 1601, 1604, 1623, 1637, 1644, 1652, 1667, 1680, 1683, 1686, 1688; To Ser. No. 499,999

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FUEL SYSTEM & PARTS (cont.)

QTY	FUEL INJECTION (cont.)	PART NO.	SIZE	DESCRIPTION
13	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1604, 1610, 1616, 1637, 1650
13	Washer Type Seal	FP-R51936		L.H. & R.H.; Aux. drive line seals
QTY	**FUEL FILTERS & PUMP**	***PART NO.***	**SIZE**	**DESCRIPTION**
6	O-Ring	FP-R77551		Leak-off fitting to nozzle; Nozzle codes 1601, 1604, 1610, 1615, 1616, 1623, 1637, 1644, 1650; Viton®
QTY	**TURBOCHARGER**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	O-Ring	FP-R86743		Outer coupling; Manifold code 1726

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Impeller	FP-R71225		Water pump code 2032; w/Pump housing marked R83561
2	Ball Brg.	FP-JD10329		Fan hub shaft bearing
1	Ball Brg.	FP-JD10363		Gear driven front bearing; Water pump code 2032; w/Pump housing marked R83561
1	Ball Brg.	FP-JD10362		Gear driven rear bearing; Water pump code 2032; w/Pump housing marked R83561
1	Water Pump Inlet Gasket	FP-R71361		w/Pump housing marked R83561; To Ser. No. 499,999
1	Oil Seal	FP-RE39134		Water pump code 2032; w/Pump housing marked R83561; To Ser. No. 499,999
3	O-Ring	FP-R72328		Water tube to thermostat housing seal; Water pump code 2030; Thermostat housing code 3905
3	O-Ring	FP-R72328		6076D Engs.; Water tube to thermostat housing seal; Water pump codes 2030, 2039; Thermostat housing codes 3905, 3909
1	O-Ring	FP-R101042		Housing to cover; Water pump code 2030; w/Gear driven pump
1	O-Ring	FP-R71596		Pump cover; w/Pump housing marked R83561; Water pump code 2032
2	O-Ring	FP-R47153		Water pump tube
1	Oil Seal	FP-RE20768		Fan hub shaft seal; For gear driven water pump
1	Water Pump Hub	FP-JD10058		w/Fan Hub bearing codes 2317, 2318, 2324, 2328, 2329, 2330, 2331, 2332, 2334, 2336, 2338, 2339
1	Water Pump Filter	FP-R98527		Water pump code 2032; w/Pump housing marked R83561; From Ser. No. 101,935
QTY	**THERMOSTAT**	***PART NO.***	**SIZE**	**DESCRIPTION**
2	Thermostat	FP-AR48675		Thermostat code 2204; 180 Deg.
1	Thermostat Cover Gasket	FP-R46479		Thermostat cover codes 2102, 2114, 2204, 3904, 3912; Two hole
2	O-Ring	FP-R47153		Thermostat; Water manifold codes 3904, 3912
QTY	**MISCELLANEOUS**	***PART NO.***	**SIZE**	**DESCRIPTION**
2	Water Manifold Mounting Gskt.	FP-R88397		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	FP-R125670		Aux. drive L.H. rear cover gskt.
1	Oil Pan Gasket	FP-R71918		
1	Oil Pan Gasket	FP-R49377		w/Alum. pan; Oil pan codes 1906, 1916, 1922, 1953, 1954
1	Oil Pan Gasket Set	FP-PG400PS		To Ser. No. 499,999; w/Cast iron oil pan
2	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"
QTY	**GASKET SETS**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	In-Frame Gasket Set	FP-PG6076LS		From Ser. No. 500,000
1	In-Frame Gasket Set	FP-PG6076ES		To Ser. No. 499,999
1	Complete Overhaul Gasket Set	FP-RE57187		From Ser. No. 500,000; Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE64206		From Ser. No. 500,000; Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE57187WS		From Ser. No. 500,000; Incl. Crankshaft seals
1	Complete Overhaul Gasket Set	FP-RE64206WS		From Ser. No. 500,000; Incl. Crankshaft seals
1	Complete Overhaul Gasket Set	FP-RE35647		To Ser. No. 499,999; Crankshaft seals not incl.
QTY	**CAM BEARINGS**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Cam Brg.	FP-R87561		
QTY	**OIL COOLERS & FILTERS**	***PART NO.***	**SIZE**	**DESCRIPTION**
4	O-Ring	FP-R47153		Cooler tube

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-RE53422		Gears incl.; Short snout 3.000"
1	Crankshaft	FP-AR96189		Gears not incl.

(continued on next page)

29 *Industrial Applications* 6076D Eng.
(cont.) 7.6L 465.9 (7638cc) OHV Diesel L6 (Litre Engine), 115mm Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-AR49025		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE22764		PTFE
1	Oil Seal Kit	FP-SK49025		Incl. front & rear seals

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
5	Plain Main Brg.	FP-AR74814	*STD*	
5	Plain Main Brg.	FP-AR74816	*10*	
5	Plain Main Brg.	FP-AR74817	*20*	
5	Plain Main Brg.	FP-AR74818	*30*	
1	Flanged Main Brg.	FP-AR77748	*STD*	
1	Flanged Main Brg.	FP-AR77750	*10*	
1	Flanged Main Brg.	FP-AR77751	*20*	
1	Flanged Main Brg.	FP-AR77752	*30*	
1	Thrust Washer Set	FP-AR77747	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
3	O-Ring	FP-U17409		Oil cooler relief valve plug seal; Filter & housing code 5919
4	O-Ring	FP-R71732		Pump by-pass tubes; Pump codes 5001, 5003, 5004; w/Pump marked R62946, R124328
1	Oil Pump Intake Gasket	FP-R100569		w/Oil pump housing marked R124328, R124746; Oil pump pickup codes 1904, 1906, 1908, 1916, 1922, 1953
1	Rect. or Square Seal	FP-R43660		Filter to housing; Filter & body code 5919; w/housing marked R120412
1	Oil Pump Intake Elbow Gasket	FP-R71312		w/Rear deep sump; Oil pump code 5003; Oil pan code 1906
1	Oil Filter to Block Gasket	FP-R43774		Filter housing code 5931

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R87858		
6	Liner w/Sealing Rings	FP-R87858WS		
6	Cylinder Kit Complete	FP-RE60294	*STD*	w/Con. Rod marked R71074; From Ser. No. 500,000
6	Cylinder Kit Complete	FP-RE48739	*STD*	w/Con. Rod marked R71074; To Ser. No. 499,999
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-RE57512	*STD*	From Ser. No. 500,000
6	Piston Body w/o Pin	FP-RE50868	*STD*	To Ser. No. 499,999
6	Piston Kit w/Pin & Retainers	FP-RE57512WP	*STD*	From Ser. No. 500,000
6	Piston Kit w/Pin & Retainers	FP-RE50868WP	*STD*	To Ser. No. 499,999
6	Pin	FP-R57771		
12	Piston Pin Retainer	FP-E1343FN		
6	Pin Bushing	FP-R74008		w/Con. Rod marked R71074; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R66452		w/Con. Rod marked R71074; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	FP-AR73277	*STD*	
6	Rod Pair	FP-AR73279	*10*	
6	Rod Pair	FP-AR73280	*20*	
6	Rod Pair	FP-AR73281	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE57517	*STD*	From Ser. No. 500,000

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-6076LIFK		w/Con. Rod marked R71074; From Ser. No. 500,000; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	FP-6076EIFK		w/Con. Rod marked R71074; To Ser. No. 499,999; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-6076LOHK		w/Con. Rod marked R71074; From Ser. No. 500,000; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-6076EOHK		w/Con. Rod marked R71074; To Ser. No. 499,999; Incl. Torque-To-Yield con. rod bolts

Industrial Applications **6076A, 6076H, 6076T Engs.** **30**
7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 (Litre Engine), 115mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	**FP-RE47336**		From Ser. No. 500,000
1	Head Set	**FP-RG22248**		From Ser. No. 500,000

QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
11	Head Bolt	**FP-R88043**		To Ser. No. 499,999; 5.250" length
8	Head Bolt	**FP-R88044**		To Ser. No. 499,999; 6.250" length
7	Head Bolt	**FP-R88045**		To Ser. No. 499,999; 7.250" length

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-R84618**	*STD*	1 groove; Chrome plated stem; 2.0080" Head Dia., .3730" Stem Dia., 6.0600" O.A.L.
6	Intake	**FP-R93308**	*3*	1 groove; Chrome plated stem; 2.0080" Head Dia., .3760" Stem Dia., 6.0600" O.A.L.
6	Exhaust	**FP-R84619**	*STD*	1 groove; Chrome plated stem; 1.8500" Head Dia., .3720" Stem Dia., 6.1780" O.A.L.
6	Exhaust	**FP-R93311**	*3*	1 groove; Chrome plated stem; 1.8500" Head Dia., .3750" Stem Dia., 6.1780" O.A.L.
12	Valve Stem Cap	**FP-T20129**		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	**FP-R84976**	*STD*	
6	Exh.	**FP-R93349**	*10*	
6	Int.	**FP-R84977**	*STD*	
6	Int.	**FP-R93350**	*10*	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	**FP-R91822**		

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	**FP-RE11410**		Exh. & Int.
1	Oil Filler Cap Gasket	**FP-T20328**		Rocker arm cover codes 1101, 1103, 2904, 2908; Oil filler neck codes 1208, 6209

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	**FP-R53108**		3-Hole mount; Starting motor codes 3004, 3005, 3011, 3016

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	**FP-JD9449**		Front; Delco-Remy components; Code 3132; 24 Volt, 40 amp alternator
1	Ball Brg.	**FP-JD9449**		Front; Nippondenso components; Code 3137; 12 Volt, 70 amp alternator
1	Ball Brg.	**FP-JD9449**		Front; Nippondenso components; Code 3143; 12 Volt, 90 amp Poly-Vee alternator
2	Ball Brg.	**FP-JD9449**		Front & Rear; Delco-Remy No. 1101345; Code 3114; 12 Volt, 78 amp alternator
2	Ball Brg.	**FP-JD9449**		Front & Rear; Motorola No. 70D42179T02; 24 Volt, 45 amp alternator

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R79915**		Tach sensor seal to cover; Codes 4402, 4420

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	**FP-R83021**		One Exh. hole
2	Exhaust Manifold Gasket	**FP-R83020**		Two Exh. holes
3	Intake Manifold Gasket	**FP-R130573**		w/Int. manifolds R108608, R127872, R132293
3	Intake Manifold Gasket	**FP-R130573**		w/Int. manifolds R89791, R91466, R112707
3	Intake Manifold Gasket	**FP-R130573**		From Ser. No. 500,000; w/Int. manifolds R89790, R115393, R130718, R131473, R131651, R131657, R132290, R134429
3	Intake Manifold Gasket	**FP-R130573**		To Ser. No. 499,999; w/Int. manifold R89790

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	**FP-R26058**		
1	Timing Gear Cover Gasket	**FP-R50390**		Access cover
1	Timing Gear Cover Gasket	**FP-R99464**		From Ser. No. 500,000
1	Timing Gear Cover Gasket	**FP-R71314**		To Ser. No. 499,999
1	Timing Gear Cover Gasket	**FP-R93346**		To Ser. No. 499,999; Use w/cover R109662

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	**FP-R82007**		

(continued on next page)

30 (cont.) *Industrial Applications* 6076A, 6076H, 6076T Engs.
7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 (Litre Engine), 115mm Bore

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R53899		Control valve to pump housing seal; Pump housing codes 1610, 1616, 1626, 1640, 1641, 1650, 1654; Fuel filter codes 3502, 3503, 3511, 3513
1	Washer	FP-R53901		6076A Engs.; Control valve seal to housing; Pump housing codes 1601, 1637, 1650, 1688, 1689; Filter & line codes 3512, 3521
1	Washer	FP-R53901		6076T Engs.; Control valve seal to housing; Pump housing codes 1652, 1652, 1680; Filter & line codes 3512, 3521
6	Washer	FP-R84472		Injector nozzle; 6076A Engs.; Nozzle codes 1601, 1617, 1637, 1686, 1688, 1689; .290" X .715" X .079"
6	Washer	FP-R84472		Injector nozzle; 6076T Engs.; Nozzle codes 1652, 1683; .290" X .715" X .079"
6	Fuel Injector Nut	FP-R79604		6076A Engs.; Inj. pump; Line codes 1601, 1604, 1623, 1637, 1644, 1652, 1667, 1680, 1683, 1686, 1688
13	Washer Type Seal	FP-R51936		Electric fuel shut-off
13	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1601, 1604, 1611, 1612, 1613, 1615, 1616, 1617, 1622, 1623, 1625, 1626, 1637, 1640, 1641, 1644, 1650, 1652, 1654, 1655, 1656, 1657, 1667, 1676, 1678, 1680, 1683, 1686, 1688, 1689
13	Washer Type Seal	FP-R51936		L.H. & R.H.; Aux. drive line seals

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
6	O-Ring	FP-R77551		Leak-off fitting to nozzle; Nozzle codes 1601, 1610, 1611, 1612, 1613, 1615, 1616, 1617, 1626, 1637, 1640, 1641, 1644, 1650, 1654, 1667, 1676, 1678, 1684, 1686, 1688, 1689; Viton®
6	O-Ring	FP-R51603		Fuel nozzle; 6076A Engs.; Injector nozzle codes 1611, 1644, 1655; w/Bosch injector

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		w/Turbo oil line codes 6501, 6502, 6504, 6505, 6506, 6510
1	Turbocharger Mounting Gasket	FP-R89879		
1	O-Ring	FP-R57517		6076A Engs.; Manifold to turbo coupling seal; Int. manifold code 1707
1	O-Ring	FP-R86743		Inner coupling; Manifold code 1707
1	O-Ring	FP-R86743		Outer coupling; Manifold codes 1706, 1709, 1710, 1726, 1731, 1737, 1738
1	O-Ring	FP-R86743		Outer coupling; Manifold codes 1726, 1730; Rear mount turbo code 4307
1	Sealing Ring	FP-R100911		6076A Engs.; Cooler inlet/outlet gskt.
1	Turbo Exhaust Int. Cover Gskt	FP-R92097		6076T Engs.; Rear mounted turbocharger

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Shaft	FP-R70965		Water pump codes 2014, 2032; w/Pump marked R83561; Gear driven pump
1	Water Pump Impeller	FP-R71225		Pump codes 2014, 2032; w/Pump housing marked R83561
1	Water Pump Repair/Rebuild Kit	FP-RE69847		w/Pump housing marked R83561; Gear driven pump
2	Ball Brg.	FP-JD10329		Fan hub shaft bearing
1	Ball Brg.	FP-JD10363		Gear driven front bearing; Water pump codes 2014, 2032; w/Pump housing marked R83561
1	Ball Brg.	FP-JD10362		Gear driven rear bearing; Water pump codes 2014, 2032; w/Pump housing marked R83561
1	Water Pump Gasket	FP-R96616		w/Pump cover R96606, R133310; From Ser. No. 500,000
1	Water Pump Housing Gasket	FP-R100367		w/Pump housing marked RE39121, RE68230; w/Raised letter "X"; From Ser. No. 500,000
1	Water Pump Mounting Gasket	FP-R71315		w/Pump housing marked R83561; To Ser. No. 499,999
1	Water Pump Mounting Gasket	FP-R71315		w/Pump housing marked R85677
1	Water Pump Inlet Gasket	FP-R71361		w/Pump housing marked R83561; To Ser. No. 499,999
1	Oil Seal	FP-RE20768		Fan hub shaft seal; For gear driven water pump
1	Oil Seal	FP-RE39134		Water pump codes 2014, 2032; w/Pump housing marked R83561
3	O-Ring	FP-R72328		Water tube to thermostat housing seal; Water pump code 2030; Thermostat housing code 3905
1	O-Ring	FP-R101042		Housing to cover; Water pump codes 2030, 2039; w/Gear driven pump
1	O-Ring	FP-R71596		Pump cover; w/Pump housing marked R83561; Water pump code 2014
2	O-Ring	FP-R47153		Water pump tube
1	Water Pump Hub	FP-JD10058		w/Fan Hub bearing codes 2317, 2318, 2320, 2324, 2327, 2328, 2329, 2330, 2331, 2332, 2334, 2335, 2336, 2338, 2339, 2340
1	Water Pump Filter	FP-R98527		Water pump codes 2014, 2032; w/Pump housing marked R83561; From Ser. No. 101,935

(continued on next page)

COOLING SYSTEM (cont.)

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	**FP-AR72852**		Thermostat code 2202; 192 Deg.
2	Thermostat	**FP-AR48675**		Thermostat code 2204; 180 Deg.
1	Thermostat Cover Gasket	**FP-R46479**		Thermostat cover codes 2102, 2114, 2204, 3904, 3912; Two hole
1	Therm. Hsg. - Water Mfld. Gsk	**FP-R86062**		Thermostat housing to cyl. head
2	O-Ring	**FP-R47153**		Thermostat; Water manifold codes 3904, 3912

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
1	Water Line Gasket	**FP-R97346**		To Ser. No. 100,770
2	Water Manifold Mounting Gskt.	**FP-R88397**		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	**FP-R125670**		Aux. drive L.H. rear cover gskt.
1	Front Cover Gasket	**FP-R104623**		From Ser. No. 500,000
1	Front Cover Gasket	**FP-R122143**		Timing gear cover gskt.; To Ser. No. 499,999
1	Oil Pan Gasket	**FP-R71918**		
1	Oil Pan Gasket	**FP-R49377**		w/Alum. pan; Oil pan code 1909
1	Oil Pan Gasket	**FP-R49377**		6076A Engs.; w/Alum. pan; Oil pan codes 1906, 1908, 1916, 1922, 1953, 1954
1	Oil Pan Gasket Set	**FP-PG400PS**		6076A Engs.; To Ser. No. 499,999; w/Cast iron oil pan
1	Oil Pan Gasket Set	**FP-PG401PS**		6076T Engs.; From Ser. No. 180,071; w/Cast iron oil pan & rear sump
2	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	**FP-PG6076LS**		From Ser. No. 500,000
1	In-Frame Gasket Set	**FP-PG6076ES**		To Ser. No. 499,999
1	Complete Overhaul Gasket Set	**FP-RE64206**		From Ser. No. 500,000; Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE64206WS**		From Ser. No. 500,000; Incl. Crankshaft seals
1	Complete Overhaul Gasket Set	**FP-RE35647**		To Ser. No. 499,999; Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	**FP-RE35647WS**		To Ser. No. 499,999; Incl. Crankshaft seals

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R87561**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket Set	**FP-6076A**		6076A Engs.; To Ser. No. 100,770; w/housing No. R50398
1	Aftercooler Gasket Set	**FP-6076ADP**		6076A Engs.; Use w/housing Nos. R90995, R93918, R110232
2	Aftercooler Gasket	**FP-R97347**		6076A Engs.
2	Aftercooler Gasket	**FP-R88993**		6076A Engs.; From Ser. No. 100,177
1	O-Ring	**FP-R52811**		6076A Engs.; Intercooler inlet & outlet tube seals; Int. manifold code 1726; To Ser. No. 100,770
4	O-Ring	**FP-R47153**		Cooler tube
2	O-Ring	**FP-R47153**		Oil filter tube; Oil filter code 5931
1	Oil Cooler Bypass Gasket	**FP-R65055**		
1	Oil Cooler Cover Gasket	**FP-R128558**		From Ser. No. 500,000
1	Oil Cooler Cover Gasket	**FP-R50419**		To Ser. No. 499,999
1	Oil Cooler Housing Cover Gskt	**FP-R128557**		From Ser. No. 500,000

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE53422**		Gears incl.; Short snout 3.000"
1	Crankshaft	**FP-AR96189**		Gears not incl.
1	Oil Seal Kit	**FP-SK49025**		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE22764**		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK400L4**	*STD*	w/5 main brgs.
1	Main Set	**FP-MBK400L410**	*10*	w/5 main brgs.
1	Main Set	**FP-MBK400L420**	*20*	w/5 main brgs.
1	Main Set	**FP-MBK400L6**	*STD*	w/7 main brgs.
1	Main Set	**FP-MBK400L610**	*10*	w/7 main brgs.
1	Main Set	**FP-MBK400L620**	*20*	w/7 main brgs.
1	Main Set	**FP-MBK400L630**	*30*	w/7 main brgs.
5	Plain Main Brg.	**FP-AR74814**	*STD*	
5	Plain Main Brg.	**FP-AR74816**	*10*	
5	Plain Main Brg.	**FP-AR74817**	*20*	
5	Plain Main Brg.	**FP-AR74818**	*30*	

(continued on next page)

30 (cont.) *Industrial Applications* 6076A, 6076H, 6076T Engs.
7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 (Litre Engine), 115mm Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	MAIN BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Flanged Main Brg.	FP-AR77748	STD	
1	Flanged Main Brg.	FP-AR77750	10	
1	Flanged Main Brg.	FP-AR77751	20	
1	Flanged Main Brg.	FP-AR77752	30	
1	Thrust Washer Set	FP-AR77747	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
3	O-Ring	FP-U17409		Oil cooler relief valve plug seal; Filter & housing codes 5919, 5931
4	O-Ring	FP-R71732		Pump by-pass tubes; Pump codes 5001, 5003, 5004; w/Pump marked R62946, R124328
1	O-Ring	FP-R50405		Intake coupling; Large end; Int. manifold code 1735
1	Rect. or Square Seal	FP-R43660		Filter to housing; Filter & body code 5919; w/housing marked R120412
1	Oil Pump Intake Elbow Gasket	FP-R71312		w/Rear deep sump; Oil pump code 5003; Oil pan code 1906
1	Oil Filter to Block Gasket	FP-R43774		Filter housing code 5931

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R87858		
6	Liner w/Sealing Rings	FP-R87858WS		
6	Cylinder Kit Complete	FP-RE60294	STD	w/Con. Rod marked R71074; From Ser. No. 500,000
6	Cylinder Kit Complete	FP-RE48739	STD	w/Con. Rod marked R71074; To Ser. No. 499,999
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-RE57512	STD	From Ser. No. 500,000
6	Piston Body w/o Pin	FP-RE50868	STD	To Ser. No. 499,999
6	Piston Kit w/Pin & Retainers	FP-RE57512WP	STD	From Ser. No. 500,000
6	Piston Kit w/Pin & Retainers	FP-RE50868WP	STD	To Ser. No. 499,999
6	Pin	FP-R57771		
12	Piston Pin Retainer	FP-E1343FN		
6	Pin Bushing	FP-R74008		w/Con. Rod marked R71074; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-AR73277	STD	
6	Rod Pair	FP-AR73279	10	
6	Rod Pair	FP-AR73280	20	
6	Rod Pair	FP-AR73281	30	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE57517	STD	From Ser. No. 193,861
6	Ring Set Single Cylinder	FP-RE48380	STD	To Ser. No. 193,860; 2-5/32, 1-3/16 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-6076LIFK		w/Con. Rod marked R71074; From Ser. No. 500,000; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	FP-6076EIFK		w/Con. Rod marked R71074; To Ser. No. 499,999; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-6076LOHK		w/Con. Rod marked R71074; From Ser. No. 500,000; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-6076EOHK		w/Con. Rod marked R71074; To Ser. No. 499,999; Incl. Torque-To-Yield con. rod bolts

31 *Industrial Applications* 6081HN PowerTech Eng. (Natural Gas)
8.1L 495.9 (8129cc) OHV Turbo-NG L6 (PowerTech 2V IC), 116mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	FP-RE55475		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Cap	FP-T20129		Exh. & Int.
24	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE11410		Exh. & Int.
1	Oil Filler Cap Gasket	FP-R80135		Cover code 5205; L.H. Auxiliary drive
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover codes 1105, 2912

(continued on next page)

Industrial Applications **6081HN PowerTech Eng. (Natural Gas)** **31**
8.1L 495.9 (8129cc) OHV Turbo-NG L6 (PowerTech 2V IC), 116mm Bore **(cont.)**

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	FP-R26058		Rear
1	Timing Gear Cover Gasket	FP-R50390		Access cover

FUEL SYSTEM & PARTS

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		w/Turbo oil line codes 6501, 6502, 6504, 6505, 6506, 6507, 6508, 6510, 6511, 6512, 6513, 6529, 6530, 6531
1	Turbocharger Mounting Gasket	FP-R89879		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Gasket	FP-R119383		Pump codes 2015, 5701; w/Pump housing marked R119795
1	Oil Seal	FP-RE39134		Water pump codes 2015, 5701; w/Pump housing marked R119795
1	Water Pump Filter	FP-R98527		w/Pump housing marked R119795

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR72852		Water manifold & thermostat codes 2114, 2202, 3901; 192 Deg.
1	Thermostat Gasket	FP-R124211		Water manifold & thermostat codes 2114, 2202, 3901

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	FP-R88397		Water manifold & thermostat codes 2114, 2202, 3901

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	FP-R119384		Timing gear & front seal codes 6201, 7701
1	Oil Pan Gasket	FP-R49377		w/Alum. oil pan w/shallow sump; Oil pan code 1901
1	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater code 2601; 1.475" X .118"
1	O-Ring	FP-R71596		Timing gear & front seal codes 6201, 7701; Plate seal

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-RE57187		Crankshaft seals not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Cam Brg.	FP-R87561		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	FP-AR55394		Oil cooler code 5901
1	Oil Cooler Bypass Gasket	FP-R109625		Adapter
1	Oil Cooler Housing Gasket	FP-AR58952		Oil cooler code 5901
2	Oil Cooler Adapter Gasket Set	FP-R50424		Oil cooler code 5901

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-SK49025		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-AR49025		Timing gear & front seal codes 6201, 7701

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE22764		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE529319	*STD*	
1	Flanged Main Brg.	FP-RE529320	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
4	O-Ring	FP-R71732		Oil cooler bypass tube seals
2	O-Ring	FP-U17409		Oil cooler relief valve plug seal; Filter & housing code 5901
1	O-Ring	FP-R72328		Rocker arm cover code 1110; Vent tube elbow seal
4	O-Ring	FP-R47153		Tube seal; Filter & housing code 5901
2	O-Ring	FP-R71732		Tube seal; Pump code 5002
1	Rect. or Square Seal	FP-R43660		Filter seal; Filter & housing code 5901
1	Oil Filter Seal Ring	FP-R26163		Turbocharger elbow seal
1	Oil Filter Base Gasket	FP-R119847		Filter & housing code 5901

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R57771		
12	Piston Pin Retainer	FP-E1343FN		
6	Pin Bushing	FP-R74008		1.877" ID, 2.0622 OD, 1.8728" O.A.L.

(continued on next page)

31 (cont.) *Industrial Applications* 6081HN PowerTech Eng. (Natural Gas)
8.1L 495.9 (8129cc) OHV Turbo-NG L6 (PowerTech 2V IC), 116mm Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R66452		w/Con. Rod marked R116340; Torque-To-Yield bolt; Replacement recommended
6	Rod Bearing Half Upper/Lower	FP-R525767	STD	

32 *Industrial Applications* 6081H PowerTech Eng. (2-Valve Cyl. Head)
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V IC), 116mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R49866		Rocker cover codes 1102, 1105, 2912
1	Head Gasket	FP-RE55475		
1	Head Set	FP-RE57186		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R84618	STD	1 groove; Chrome plated stem; 2.0080" Head Dia., .3730" Stem Dia., 6.0600" O.A.L.
6	Intake	FP-R93308	3	1 groove; Chrome plated stem; 2.0080" Head Dia., .3760" Stem Dia., 6.0600" O.A.L.
6	Exhaust	FP-R84619	STD	1 groove; Chrome plated stem; 1.8500" Head Dia., .3720" Stem Dia., 6.1780" O.A.L.
6	Exhaust	FP-R93311	3	1 groove; Chrome plated stem; 1.8500" Head Dia., .3750" Stem Dia., 6.1780" O.A.L.
12	Valve Stem Cap	FP-T20129		Exh. & Int.
24	Keeper	FP-T20077		Exh. & Int.; 1 groove; Square cut key groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R119132	STD	
6	Exh.	FP-R93349	10	
6	Int.	FP-R121193	STD	
6	Int.	FP-R93350	10	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R91822		Exh. & Int.

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover codes 1105, 2912

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Code 3143; 12 Volt, 90 amp alternator; Poly-Vee fan drive

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	FP-R83020		Codes 2802, 3830; w/two holes; Two Exh. holes
2	Exhaust Manifold Gasket	FP-R83021		Codes 2802, 3830; One Exh. hole
3	Intake Manifold Gasket	FP-R130573		w/Int. manifolds R127427, R131652

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	FP-R26058		Housing to block gskt.

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R53899		Control valve to pump housing seal; Inj. pump housing connector codes 1616, 1621, 1632, 1633, 1634, 1635, 1636, 1641, 1655, 1657, 1658, 1659
2	Washer	FP-R53901		Fuel inj. pump connector seal; Filter & line codes 1603, 1604, 1605, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1615, 1617, 1618, 1619, 1620, 1622, 1623, 1624, 1640, 1656, 1676; w/Bosch pump
6	Washer	FP-R84472		Injector nozzle; Nozzle codes 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1613, 1615, 1620, 1621, 1622, 1624, 1630, 1632, 1633, 1635, 1639, 1642, 1648, 1651, 1655, 1657, 1659, 1661, 1662, 1663, 1676; .290" X .715" X .079"
6	Fuel Injector Nut	FP-R79604		Injector line codes 1601, 1602
13	Washer Type Seal	FP-R51936		Fuel line; Line codes 1601, 1602, 1603, 1604, 1605, 1606, 1608, 1610, 1611, 1612, 1616, 1617, 1618, 1619, 1632, 1634, 1636, 1640, 1641, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1656, 1661, 1662, 1663, 1667

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Industrial Applications **6081H PowerTech Eng. (2-Valve Cyl. Head)** **32**
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V IC), 116mm Bore **(cont.)**

FUEL SYSTEM & PARTS (cont.)

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	**FP-R105346**		w/Turbo oil line codes 6501, 6503, 6504, 6505, 6506, 6507, 6508, 6510, 6511, 6512, 6513, 6529, 6530, 6531
1	Turbocharger Mounting Gasket	**FP-R89879**		
1	O-Ring	**FP-R86743**		Outer coupling
1	Turbo Exhaust Int. Cover Gskt	**FP-R92097**		Turbo code 6514

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
2	Ball Brg.	**FP-JD10329**		Fan hub shaft bearing
1	Water Pump Gasket	**FP-R119383**		w/Pump housing marked R119795; w/15 tooth gear; High flow
1	Water Pump Gasket	**FP-R119383**		w/Pump housing marked R119795; w/16 tooth gear; Low flow
1	Oil Seal	**FP-RE39134**		Water pump codes 2001, 2004; w/Pump housing marked R119795
1	Water Pump Hub	**FP-JD10058**		w/Fan Hub bearing codes 2305, 2306, 2335, 2336, 2337, 2338, 2339
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked R119795

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	**FP-AR48675**		Thermostat code 2204; 180 Deg.
1	Thermostat Gasket	**FP-R124211**		Thermostat housing to cyl. head
1	Thermostat Cover Gasket	**FP-R46479**		Thermostat cover codes 2102, 2114; Two hole
1	Therm. Hsg. - Water Mfld. Gsk	**FP-R86062**		Housing to cyl. head

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	**FP-R88397**		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	**FP-R125670**		Air compressor to timing cover; Midland or Holset
1	Front Cover Gasket	**FP-R119384**		Timing gear cover
1	Oil Pan Gasket	**FP-R49377**		w/Alum. pan; Oil pan codes 1906, 1909, 1914, 1916
1	Oil Pan Gasket	**FP-R71918**		w/Cast Iron pan
1	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	**FP-RE57187**		From Ser. No. 500,000; Crankshaft seals not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Cam Brg.	**FP-R87561**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket	**FP-R88993**		w/Int. manifold codes 1703, 1738
2	Aftercooler Gasket	**FP-R88993**		w/Int. manifold codes 1705, 1737
1	Oil Cooler	**FP-AR55394**		
4	O-Ring	**FP-R47153**		Cooler tube; Cooler code 5901
4	O-Ring	**FP-R47153**		Oil filter tube; Filter code 5901
1	Oil Cooler Housing Gasket	**FP-AR58952**		
2	Oil Cooler Adapter Gasket Set	**FP-R50424**		

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE22764**		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	**FP-RE529319**	*STD*	
1	Flanged Main Brg.	**FP-RE529320**	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	O-Ring	**FP-U17409**		Oil cooler relief valve plug seal; Filter & housing code 5901
1	Oil Pump Intake Gasket	**FP-R100569**		Oil pump pickup codes 1906, 1909, 1916
1	Oil Filter Base Gasket	**FP-R119847**		Housing to block gskt.

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R520212**	*STD*	
6	Cylinder Kit Complete	**FP-RE508156 ***	*STD*	For Low Compression Engines
6	Cylinder Kit Complete	**FP-RE64509**	*STD*	Use w/pistons marked RE64170, RE65289, RE70688; For High Compression Engines
6	Cyl. Liner Sealing Ring Kit	**FP-AR98850**		

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32 (cont.) *Industrial Applications* 6081H PowerTech Eng. (2-Valve Cyl. Head)
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V IC), 116mm Bore

CYLINDER COMPONENTS (cont.)

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-RE516291 *	STD	For Low Compression Engines
6	Piston Body w/o Pin	FP-RE70688	STD	Used w/piston marked RE64170, RE65289, RE70088; For High Compression Engines
6	Pin	FP-R57771		
12	Piston Pin Retainer	FP-E1343FN		
6	Pin Bushing	FP-R74008		w/Con. Rod marked R11634, R501034; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R66452		To Ser. No. 086,535; w/Con. Rod marked R116340; Torque-To-Yield bolt; Replacement recommended
6	Rod Bearing Half Upper/Lower	FP-R525767	STD	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE503528	STD	

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFKPT6081		
1	Complete Overhaul Kit	FP-OHPT6081		

33 *Industrial Applications* 6081A PowerTech Eng. (2-Valve Cyl. Head)
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V AC), 116mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R49866		Rocker cover codes 1102, 1105, 2912
1	Head Gasket	FP-RE55475		
1	Head Set	FP-RE57186		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R84618	STD	1 groove; Chrome plated stem; 2.0080" Head Dia., .3730" Stem Dia., 6.0600" O.A.L.
6	Intake	FP-R93308	3	1 groove; Chrome plated stem; 2.0080" Head Dia., .3760" Stem Dia., 6.0600" O.A.L.
6	Exhaust	FP-R84619	STD	1 groove; Chrome plated stem; 1.8500" Head Dia., .3720" Stem Dia., 6.1780" O.A.L.
6	Exhaust	FP-R93311	3	1 groove; Chrome plated stem; 1.8500" Head Dia., .3750" Stem Dia., 6.1780" O.A.L.
12	Valve Stem Cap	FP-T20129		Exh. & Int.
24	Keeper	FP-T20077		Exh. & Int.; 1 groove; Square cut key groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R119132	STD	
6	Exh.	FP-R93349	10	
6	Int.	FP-R121193	STD	
6	Int.	FP-R93350	10	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R91822		Exh. & Int.

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover codes 1105, 2912

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Code 3143; 12 Volt, 90 amp alternator; Poly-Vee fan drive

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	FP-R83020		Codes 2802, 3830; w/two holes; Two Exh. holes
2	Exhaust Manifold Gasket	FP-R83021		Codes 2802, 3830; One Exh. hole
3	Intake Manifold Gasket	FP-R130573		w/Int. manifolds R127427, R131652

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	FP-R26058		Housing to block gskt.

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* New Item — Check For Availability

Industrial Applications **6081A PowerTech Eng. (2-Valve Cyl. Head)** **33**
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V AC), 116mm Bore **(cont.)**

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R53899		Control valve to pump housing seal; Inj. pump housing connector codes 1616, 1621, 1632, 1633, 1634, 1635, 1636, 1641, 1655, 1657, 1658, 1659
2	Washer	FP-R53901		Fuel inj. pump connector seal; Filter & line codes 1603, 1604, 1605, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1615, 1617, 1618, 1619, 1620, 1622, 1623, 1624, 1640, 1656, 1676; w/Bosch pump
6	Washer	FP-R84472		Injector nozzle; Nozzle codes 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1613, 1615, 1620, 1621, 1622, 1624, 1630, 1632, 1633, 1635, 1639, 1642, 1648, 1651, 1655, 1657, 1659, 1661, 1662, 1663, 1676; .290" X .715" X .079"
6	Fuel Injector Nut	FP-R79604		Injector line codes 1601, 1602
13	Washer Type Seal	FP-R51936		Fuel line; Line codes 1601, 1602, 1603, 1604, 1605, 1606, 1608, 1610, 1611, 1612, 1616, 1617, 1618, 1619, 1632, 1634, 1636, 1640, 1641, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1656, 1661, 1662, 1663, 1667

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		w/Turbo oil line codes 6501, 6503, 6504, 6505, 6506, 6507, 6508, 6510, 6511, 6512, 6513, 6529, 6530, 6531
1	Turbocharger Mounting Gasket	FP-R89879		
1	O-Ring	FP-R86743		Outer coupling
1	Turbo Exhaust Int. Cover Gskt	FP-R92097		Turbo code 6514

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
2	Ball Brg.	FP-JD10329		Fan hub shaft bearing
1	Water Pump Gasket	FP-R119383		w/Pump housing marked R119795; w/15 tooth gear; High flow
1	Water Pump Gasket	FP-R119383		w/Pump housing marked R119795; w/16 tooth gear; Low flow
1	Oil Seal	FP-RE39134		Water pump codes 2001, 2004; w/Pump housing marked R119795
1	Water Pump Hub	FP-JD10058		w/Fan Hub bearing codes 2305, 2306, 2335, 2336, 2337, 2338, 2339
1	Water Pump Filter	FP-R98527		w/Pump housing marked R119795

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2204; 180 Deg.
1	Thermostat Gasket	FP-R124211		Thermostat housing to cyl. head
1	Thermostat Cover Gasket	FP-R46479		Thermostat cover codes 2102, 2114; Two hole
1	Therm. Hsg. - Water Mfld. Gsk	FP-R86062		Housing to cyl. head

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	FP-R88397		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	FP-R125670		Air compressor to timing cover; Midland or Holset
1	Front Cover Gasket	FP-R119384		Timing gear cover
1	Oil Pan Gasket	FP-R49377		w/Alum. pan; Oil pan codes 1906, 1909, 1914, 1916
1	Oil Pan Gasket	FP-R71918		w/Cast Iron pan
1	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-RE57187		From Ser. No. 500,000; Crankshaft seals not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Cam Brg.	FP-R87561		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket	FP-R88993		w/Int. manifold codes 1703, 1738
2	Aftercooler Gasket	FP-R88993		w/Int. manifold codes 1705, 1737
1	Oil Cooler	FP-AR55394		
4	O-Ring	FP-R47153		Cooler tube; Cooler code 5901
4	O-Ring	FP-R47153		Oil filter tube; Filter code 5901
1	Oil Cooler Housing Gasket	FP-AR58952		
2	Oil Cooler Adapter Gasket Set	FP-R50424		

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-AR49025		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE22764		PTFE

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33 (cont.) *Industrial Applications* 6081A PowerTech Eng. (2-Valve Cyl. Head)
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V AC), 116mm Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE529319	STD	
1	Flanged Main Brg.	FP-RE529320	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-U17409		Oil cooler relief valve plug seal; Filter & housing code 5901
1	Oil Pump Intake Gasket	FP-R100569		Oil pump pickup codes 1906, 1909, 1916
1	Oil Filter Base Gasket	FP-R119847		Housing to block gskt.

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R520212	STD	
6	Cylinder Kit Complete	FP-RE508156 *	STD	For Low Compression Engines
6	Cylinder Kit Complete	FP-RE64509	STD	Use w/pistons marked RE64170, RE65289, RE70688; For High Compression Engines
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-RE516291 *	STD	For Low Compression Engines
6	Piston Body w/o Pin	FP-RE70688	STD	Used w/piston marked RE64170, RE65289, RE70688; For High Compression Engines
6	Pin	FP-R57771		
12	Piston Pin Retainer	FP-E1343FN		
6	Pin Bushing	FP-R74008		w/Con. Rod marked R11634, R501034; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R66452		To Ser. No. 086,535; w/Con. Rod marked R116340; Torque-To-Yield bolt; Replacement recommended
6	Rod Bearing Half Upper/Lower	FP-R525767	STD	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE503528	STD	

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFKPT6081		
1	Complete Overhaul Kit	FP-OHPT6081		

34 *Industrial Applications* 6081T Eng.
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (Litre Engine), 116mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R49866		Rocker cover codes 1102, 1105, 2912
1	Head Gasket	FP-RE55475		
1	Head Set	FP-RE57186		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R84618	STD	1 groove; Chrome plated stem; 2.0080" Head Dia., .3730" Stem Dia., 6.0600" O.A.L.
6	Intake	FP-R93308	3	1 groove; Chrome plated stem; 2.0080" Head Dia., .3760" Stem Dia., 6.0600" O.A.L.
6	Exhaust	FP-R84619	STD	1 groove; Chrome plated stem; 1.8500" Head Dia., .3720" Stem Dia., 6.1780" O.A.L.
6	Exhaust	FP-R93311	3	1 groove; Chrome plated stem; 1.8500" Head Dia., .3750" Stem Dia., 6.1780" O.A.L.
12	Valve Stem Cap	FP-T20129		Exh. & Int.
24	Keeper	FP-T20077		Exh. & Int.; 1 groove; Square cut key groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R119132	STD	
6	Exh.	FP-R93349	10	
6	Int.	FP-R121193	STD	
6	Int.	FP-R93350	10	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R91822		Exh. & Int.

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover codes 1105, 2912

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* New Item — Check For Availability

Industrial Applications **6081T Eng.** **34**
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (Litre Engine), 116mm Bore **(cont.)**

ELECTRICAL

QTY	ALTERNATOR	*PART NO.*	SIZE	DESCRIPTION
1	Ball Brg.	**FP-JD9449**		Front; Code 3143; 12 Volt, 90 amp alternator; Poly-Vee fan drive

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	*PART NO.*	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	**FP-R83020**		Codes 2802, 3830; w/two holes; Two Exh. holes
2	Exhaust Manifold Gasket	**FP-R83021**		Codes 2802, 3830; One Exh. hole
3	Intake Manifold Gasket	**FP-R130573**		w/Int. manifolds R127427, R131652

CAMSHAFT GROUP

QTY	TIMING COVER	*PART NO.*	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	**FP-R26058**		Housing to block gskt.
1	Timing Gear Cover Gasket	**FP-R50390**		Access cover

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	*PART NO.*	SIZE	DESCRIPTION
1	Washer	**FP-R53899**		Control valve to pump housing seal; Inj. pump housing connector codes 1616, 1621, 1632, 1633, 1634, 1635, 1636, 1641, 1655, 1657, 1658, 1659
2	Washer	**FP-R53901**		Fuel inj. pump connector seal; Filter & line codes 1603, 1604, 1605, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1615, 1617, 1618, 1619, 1620, 1622, 1623, 1624, 1640, 1656, 1676; w/Bosch pump
6	Washer	**FP-R84472**		Injector nozzle; Nozzle codes 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1613, 1615, 1620, 1621, 1622, 1624, 1630, 1632, 1633, 1635, 1639, 1642, 1648, 1651, 1655, 1657, 1659, 1661, 1662, 1663, 1676; .290" X .715" X .079"
6	Fuel Injector Nut	**FP-R79604**		Injector line codes 1601, 1602
13	Washer Type Seal	**FP-R51936**		Fuel line; Line codes 1601, 1602, 1603, 1604, 1605, 1606, 1608, 1610, 1611, 1612, 1616, 1617, 1618, 1619, 1632, 1634, 1636, 1640, 1641, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1656, 1661, 1662, 1663, 1667

QTY	TURBOCHARGER	*PART NO.*	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	**FP-R105346**		w/Turbo oil line codes 6501, 6503, 6504, 6505, 6506, 6507, 6508, 6510, 6511, 6512, 6513, 6529, 6530, 6531
1	Turbocharger Mounting Gasket	**FP-R89879**		
1	O-Ring	**FP-R86743**		Outer coupling
1	Turbo Exhaust Int. Cover Gskt	**FP-R92097**		Turbo code 6514

COOLING SYSTEM

QTY	WATER PUMP	*PART NO.*	SIZE	DESCRIPTION
2	Ball Brg.	**FP-JD10329**		Fan hub shaft bearing
1	Water Pump Gasket	**FP-R119383**		w/Pump housing marked R119795; w/16 tooth gear; Low flow
1	Oil Seal	**FP-RE39134**		Water pump codes 2001, 2004; w/Pump housing marked R119795
1	Water Pump Hub	**FP-JD10058**		w/Fan Hub bearing codes 2305, 2306, 2335, 2336, 2337, 2338, 2339
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked R119795

QTY	THERMOSTAT	*PART NO.*	SIZE	DESCRIPTION
2	Thermostat	**FP-AR48675**		Thermostat code 2204; 180 Deg.
1	Thermostat Gasket	**FP-R124211**		Thermostat housing to cyl. head
1	Thermostat Cover Gasket	**FP-R46479**		Thermostat cover codes 2102, 2114; Two hole
1	Therm. Hsg. - Water Mfld. Gsk	**FP-R86062**		Housing to cyl. head

QTY	MISCELLANEOUS	*PART NO.*	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	**FP-R88397**		

ENGINE BLOCK & PARTS

QTY	GASKETS	*PART NO.*	SIZE	DESCRIPTION
1	Front Cover Gasket	**FP-R125670**		Air compressor to timing cover; Midland or Holset
1	Front Cover Gasket	**FP-R119384**		Timing gear cover
1	Oil Pan Gasket	**FP-R49377**		w/Alum. pan; Oil pan codes 1906, 1909, 1914, 1916
1	Oil Pan Gasket	**FP-R71918**		w/Cast Iron pan
1	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	GASKET SETS	*PART NO.*	SIZE	DESCRIPTION
1	In-Frame Gasket Set	**FP-PG6081S**		
1	Complete Overhaul Gasket Set	**FP-RE57187**		From Ser. No. 500,000; Crankshaft seals not incl.

QTY	CAM BEARINGS	*PART NO.*	SIZE	DESCRIPTION
4	Cam Brg.	**FP-R87561**		

(continued on next page)

34 (cont.) *Industrial Applications* 6081T Eng.
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (Litre Engine), 116mm Bore

ENGINE BLOCK & PARTS (cont.)

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket	FP-R88993		
1	Oil Cooler	FP-AR55394		
4	O-Ring	FP-R47153		Cooler tube; Oil cooler & filter code 5901
4	O-Ring	FP-R47153		Oil filter tube; Oil cooler & filter code 5901
1	Oil Cooler Bypass Gasket	FP-R109625		Adapter
1	Oil Cooler Housing Gasket	FP-AR58952		
2	Oil Cooler Adapter Gasket Set	FP-R50424		

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-AR49025		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE22764		PTFE

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-U17409		Oil cooler relief valve plug seal; Filter & housing code 5901
1	Oil Pump Intake Gasket	FP-R100569		Oil pump pickup codes 1906, 1909, 1916
1	Oil Filter Base Gasket	FP-R119847		Housing to block gskt.

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R57771		
12	Piston Pin Retainer	FP-E1343FN		
6	Pin Bushing	FP-R74008		w/Con. Rod marked R11634, R501034; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R66452		To Ser. No. 086,535; w/Con. Rod marked R116340; Torque-To-Yield bolt; Replacement recommended

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE503528	*STD*	

35 *Industrial Applications* 6081TN PowerTech Eng. (Natural Gas)
8.1L 495.9 (8129cc) OHV Turbo-NG L6 (PowerTech 2V), 116mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	FP-RE55475		
1	Head Set	FP-RE57186		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Cap	FP-T20129		Exh. & Int.
24	Keeper	FP-T20077		1 groove; Square cut key groove; Hardened

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE11410		Exh. & Int.
1	Oil Filler Cap Gasket	FP-R80135		Cover code 5205; L.H. Auxiliary drive

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	FP-R26058		Rear
1	Timing Gear Cover Gasket	FP-R50390		Access cover

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	FP-R82007		

FUEL SYSTEM & PARTS

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		
1	Turbocharger Mounting Gasket	FP-R89879		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Gasket	FP-R119383		Pump codes 2015, 5701; w/Pump housing marked R119795
1	Oil Seal	FP-RE39134		Water pump codes 2015, 5701; w/Pump housing marked R119795

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR72852		Water manifold & thermostat codes 2114, 2202, 3901; 192 Deg.

(continued on next page)

Industrial Applications **6081TN PowerTech Eng. (Natural Gas)** **35**
8.1L 495.9 (8129cc) OHV Turbo-NG L6 (PowerTech 2V), 116mm Bore **(cont.)**

COOLING SYSTEM (cont.)

QTY	THERMOSTAT (cont.)	PART NO.	SIZE	DESCRIPTION
1	Thermostat Gasket	**FP-R124211**		Water manifold & thermostat codes 2114, 2202, 3901

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	**FP-R88397**		Water manifold & thermostat codes 2114, 2202, 3901

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	**FP-R119384**		Timing gear & front seal codes 6201, 7701
1	Oil Pan Gasket	**FP-R49377**		w/Alum. oil pan w/shallow sump; Oil pan code 1901
1	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater code 2601; 1.475" X .118"
1	O-Ring	**FP-R71596**		Timing gear & front seal codes 6201, 7701; Plate seal

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	**FP-RE57187**		Crankshaft seals not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Cam Brg.	**FP-R87561**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler Bypass Gasket	**FP-R109625**		Adapter
1	Oil Cooler Housing Gasket	**FP-AR58952**		Oil cooler code 5901
2	Oil Cooler Adapter Gasket Set	**FP-R50424**		Oil cooler code 5901

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		Timing gear & front seal codes 6201, 7701

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE22764**		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	**FP-RE529319**	*STD*	
1	Flanged Main Brg.	**FP-RE529320**	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
4	O-Ring	**FP-R71732**		Oil cooler bypass tube seals
2	O-Ring	**FP-U17409**		Oil cooler relief valve plug seal; Filter & housing code 5901
1	O-Ring	**FP-R72328**		Rocker arm cover code 1110; Vent tube elbow seal
4	O-Ring	**FP-R47153**		Tube seal; Filter & housing code 5901
2	O-Ring	**FP-R71732**		Tube seal; Pump code 5002
1	Rect. or Square Seal	**FP-R43660**		Filter seal; Filter & housing code 5901
1	Oil Filter Seal Ring	**FP-R26163**		Turbocharger elbow seal
1	Oil Filter Base Gasket	**FP-R119847**		Filter & housing code 5901

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	**FP-AR98850**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	**FP-R57771**		
12	Piston Pin Retainer	**FP-E1343FN**		
6	Pin Bushing	**FP-R74008**		1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R66452**		w/Con. Rod marked R116340; Torque-To-Yield bolt; Replacement recommended
6	Rod Bearing Half Upper/Lower	**FP-R525767**	*STD*	

Industrial Applications **6081T PowerTech Eng.** **36**
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V), 116mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R49866**		Rocker cover codes 1102, 1105, 2912
1	Head Gasket	**FP-RE55475**		
1	Head Set	**FP-RE57186**		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-R84618**	*STD*	1 groove; Chrome plated stem; 2.0080" Head Dia., .3730" Stem Dia., 6.0600" O.A.L.
6	Intake	**FP-R93308**	*3*	1 groove; Chrome plated stem; 2.0080" Head Dia., .3760" Stem Dia., 6.0600" O.A.L.

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36 (cont.) *Industrial Applications* 6081T PowerTech Eng.
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V), 116mm Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE (cont.)	PART NO.	SIZE	DESCRIPTION
6	Exhaust	FP-R84619	STD	1 groove; Chrome plated stem; 1.8500" Head Dia., .3720" Stem Dia., 6.1780" O.A.L.
6	Exhaust	FP-R93311	3	1 groove; Chrome plated stem; 1.8500" Head Dia., .3750" Stem Dia., 6.1780" O.A.L.
12	Valve Stem Cap	FP-T20129		Exh. & Int.
24	Keeper	FP-T20077		Exh. & Int.; 1 groove; Square cut key groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R119132	STD	
6	Exh.	FP-R93349	10	
6	Int.	FP-R121193	STD	
6	Int.	FP-R93350	10	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R91822		Exh. & Int.

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover codes 1105, 2912

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Code 3143; 12 Volt, 90 amp alternator; Poly-Vee fan drive

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	FP-R83020		Codes 2802, 3830; w/two holes; Two Exh. holes
2	Exhaust Manifold Gasket	FP-R83021		Codes 2802, 3830; One Exh. hole
3	Intake Manifold Gasket	FP-R130573		w/Int. manifolds R127427, R131652

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	FP-R26058		Housing to block gskt.

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R53899		Control valve to pump housing seal; Inj. pump housing connector codes 1616, 1621, 1632, 1633, 1634, 1635, 1636, 1641, 1655, 1657, 1658, 1659
2	Washer	FP-R53901		Fuel inj. pump connector seal; Filter & line codes 1603, 1604, 1605, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1615, 1617, 1618, 1619, 1620, 1622, 1623, 1624, 1640, 1656, 1676; w/Bosch pump
6	Washer	FP-R84472		Injector nozzle; Nozzle codes 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1613, 1615, 1620, 1621, 1622, 1624, 1630, 1632, 1633, 1635, 1639, 1642, 1648, 1651, 1655, 1657, 1659, 1661, 1662, 1663, 1676; .290" X .715" X .079"
6	Fuel Injector Nut	FP-R79604		Injector line codes 1601, 1602
13	Washer Type Seal	FP-R51936		Fuel line; Line codes 1601, 1602, 1603, 1604, 1605, 1606, 1608, 1610, 1611, 1612, 1616, 1617, 1618, 1619, 1632, 1634, 1636, 1640, 1641, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1656, 1661, 1662, 1663, 1667

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		w/Turbo oil line codes 6501, 6503, 6504, 6505, 6506, 6507, 6508, 6510, 6511, 6512, 6513, 6529, 6530, 6531
1	Turbocharger Mounting Gasket	FP-R89879		
1	O-Ring	FP-R86743		Outer coupling
1	Turbo Exhaust Int. Cover Gskt	FP-R92097		Turbo code 6514

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
2	Ball Brg.	FP-JD10329		Fan hub shaft bearing
1	Water Pump Gasket	FP-R119383		w/Pump housing marked R119795; w/15 tooth gear; High flow
1	Water Pump Gasket	FP-R119383		w/Pump housing marked R119795; w/16 tooth gear; Low flow
1	Oil Seal	FP-RE39134		Water pump codes 2001, 2004; w/Pump housing marked R119795
1	Water Pump Hub	FP-JD10058		w/Fan Hub bearing codes 2305, 2306, 2335, 2336, 2337, 2338, 2339
1	Water Pump Filter	FP-R98527		w/Pump housing marked R119795

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2204; 180 Deg.
1	Thermostat Gasket	FP-R124211		Thermostat housing to cyl. head

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COOLING SYSTEM (cont.)

QTY	THERMOSTAT (cont.)	PART NO.	SIZE	DESCRIPTION
1	Thermostat Cover Gasket	**FP-R46479**		Thermostat cover codes 2102, 2114; Two hole
1	Therm. Hsg. - Water Mfld. Gsk	**FP-R86062**		Housing to cyl. head

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	**FP-R88397**		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	**FP-R125670**		Air compressor to timing cover; Midland or Holset
1	Front Cover Gasket	**FP-R119384**		Timing gear cover
1	Oil Pan Gasket	**FP-R49377**		w/Alum. pan; Oil pan codes 1906, 1909, 1914, 1916
1	Oil Pan Gasket	**FP-R71918**		w/Cast Iron pan
1	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	**FP-RE57187**		From Ser. No. 500,000; Crankshaft seals not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Cam Brg.	**FP-R87561**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket	**FP-R88993**		w/Int. manifold codes 1703, 1738
2	Aftercooler Gasket	**FP-R88993**		w/Int. manifold codes 1705, 1737
1	Oil Cooler	**FP-AR55394**		
4	O-Ring	**FP-R47153**		Cooler tube; Cooler code 5901
4	O-Ring	**FP-R47153**		Oil filter tube; Filter code 5901
1	Oil Cooler Housing Gasket	**FP-AR58952**		
2	Oil Cooler Adapter Gasket Set	**FP-R50424**		

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE22764**		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	**FP-RE529319**	*STD*	
1	Flanged Main Brg.	**FP-RE529320**	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	O-Ring	**FP-U17409**		Oil cooler relief valve plug seal; Filter & housing code 5901
1	Oil Pump Intake Gasket	**FP-R100569**		Oil pump pickup codes 1906, 1909, 1916
1	Oil Filter Base Gasket	**FP-R119847**		Housing to block gskt.

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R520212**	*STD*	
6	Cylinder Kit Complete	**FP-RE508156 ***	*STD*	For Low Compression Engines
6	Cylinder Kit Complete	**FP-RE64509**	*STD*	Use w/pistons marked RE64170, RE65289, RE70688; For High Compression Engines
6	Cyl. Liner Sealing Ring Kit	**FP-AR98850**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-RE516291 ***	*STD*	For Low Compression Engines
6	Piston Body w/o Pin	**FP-RE70688**	*STD*	Used w/piston marked RE64170, RE65289, RE70688; For High Compression Engines
6	Pin	**FP-R57771**		
12	Piston Pin Retainer	**FP-E1343FN**		
6	Pin Bushing	**FP-R74008**		w/Con. Rod marked R11634, R501034; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R66452**		To Ser. No. 086,535; w/Con. Rod marked R116340; Torque-To-Yield bolt; Replacement recommended
6	Rod Bearing Half Upper/Lower	**FP-R525767**	*STD*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-RE503528**	*STD*	

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-IFKPT6081**		

(continued on next page)

36 (cont.) *Industrial Applications* **6081T PowerTech Eng.**
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V), 116mm Bore

KITS (cont.)

QTY	OVERHAUL KIT (cont.)	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	FP-OHPT6081		

37 *Industrial Applications* **6090H Eng.**
9.0L 549 (9000cc) OHV Turbo-Diesel L6 (PowerTech 4V IC), 118.4mm Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	FP-R520223	STD	1 groove; Chrome plated stem; 1.5748" Head Dia., .3142" Stem Dia., 6.4154" O.A.L.
12	Exhaust	FP-R520224	STD	1 groove; Inconel X-751; Chrome plated stem; 1.5748" Head Dia., .3142" Stem Dia., 6.4201" O.A.L.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
24	Exh. & Int.	FP-R527285 *	STD	

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
24	Guide	FP-R527286 *		

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
24	Spring	FP-R504235		

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	FP-R82007		

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Cam Brg.	FP-R527877 *	STD	

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE529319	STD	
1	Flanged Main Brg.	FP-RE529320	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump Intake Gasket	FP-R100569		

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R517073 *	STD	
6	Pin Bushing	FP-R74008		1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R501035		Fractured split rod
6	Rod Pair	FP-RE529318 *	STD	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE531077 *	STD	

38 *Industrial Applications* **6090A Eng.**
9.0L 549 (9000cc) OHV Turbo-Diesel L6 (PowerTech 4V AC), 118.4mm Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	FP-R520223	STD	1 groove; Chrome plated stem; 1.5748" Head Dia., .3142" Stem Dia., 6.4154" O.A.L.
12	Exhaust	FP-R520224	STD	1 groove; Inconel X-751; Chrome plated stem; 1.5748" Head Dia., .3142" Stem Dia., 6.4201" O.A.L.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
24	Exh. & Int.	FP-R527285 *	STD	

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
24	Guide	FP-R527286 *		

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
24	Spring	FP-R504235		

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	FP-R82007		

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* New Item — Check For Availability

Industrial Applications **6090A Eng.** **38**
9.0L 549 (9000cc) OHV Turbo-Diesel L6 (PowerTech 4V AC), 118.4mm Bore **(cont.)**

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Cam Brg.	**FP-R527877 ***	*STD*	

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	**FP-RE529319**	*STD*	
1	Flanged Main Brg.	**FP-RE529320**	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump Intake Gasket	**FP-R100569**		

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	**FP-AR98850**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	**FP-R517073 ***	*STD*	
6	Pin Bushing	**FP-R74008**		1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R501035**		Fractured split rod
6	Rod Pair	**FP-RE529318 ***	*STD*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-RE531077 ***	*STD*	

Industrial Applications **6090T Eng.** **39**
9.0L 549 (9000cc) OHV Turbo-Diesel L6 (PowerTech 4V), 118.4mm Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	**FP-R520223**	*STD*	1 groove; Chrome plated stem; 1.5748" Head Dia., .3142" Stem Dia., 6.4154" O.A.L.
12	Exhaust	**FP-R520224**	*STD*	1 groove; Inconel X-751; Chrome plated stem; 1.5748" Head Dia., .3142" Stem Dia., 6.4201" O.A.L.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
24	Exh. & Int.	**FP-R527285 ***	*STD*	

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
24	Guide	**FP-R527286 ***		

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
24	Spring	**FP-R504235**		

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	**FP-R82007**		

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Cam Brg.	**FP-R527877 ***	*STD*	

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	**FP-RE529319**	*STD*	
1	Flanged Main Brg.	**FP-RE529320**	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump Intake Gasket	**FP-R100569**		

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	**FP-AR98850**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	**FP-R517073 ***	*STD*	
6	Pin Bushing	**FP-R74008**		1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R501035**		Fractured split rod
6	Rod Pair	**FP-RE529318 ***	*STD*	

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39 (cont.) *Industrial Applications* 6090T Eng.
9.0L 549 (9000cc) OHV Turbo-Diesel L6 (PowerTech 4V), 118.4mm Bore

CYLINDER COMPONENTS (cont.)

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE531077 *	STD	

40 *Industrial Applications* 6101D Eng.
10.1L 616.7 (10109cc) OHV Diesel L6 (Litre Engine), 130mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R74365		Rocker arm cover code 1104

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover code 1104

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	FP-R80970		1 Hole
2	Exhaust Manifold Gasket	FP-R80969		2 Holes

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	FP-R35349		Gear cover; w/Cover code 7701
6	Washer	FP-R84472		Injector nozzle; Nozzle codes 1601, 1602, 1610, 1611, 1613, 1614, 1632; .290" X .715" X .079"
6	Fuel Injector Nut	FP-R79604		Injection pump; Line codes 1601, 1602, 1610, 1611, 1612, 1613, 1614, 1632
2	Washer Type Seal	FP-R51936		Fuel pump lube line codes 1601, 1602, 1611, 1612, 1613, 1632

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
6	O-Ring	FP-R77551		6101T Engs.; Leak-off fitting to nozzle; Nozzle codes 1601, 1603, 1612, 1632; Viton®
6	O-Ring	FP-R51603		Fuel nozzle; w/Bosch injector

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Shaft	FP-R82051		w/Pump housing marked R104709, R124059
1	Water Pump Impeller	FP-R82050		w/Pump housing marked R104709, R124059
2	Ball Brg.	FP-JD10329		w/Pump housing marked R104709, R124059
1	Water Pump Housing Gasket	FP-R99785		w/Pump housing marked R104709, R124059
2	Water Pump Mounting Gasket	FP-R49495		w/Pump housing marked R104709, R124059
1	O-Ring	FP-R72328		Water tube to thermostat housing seal; Turbo line codes 6501, 6502, 6503
1	Water Pump Filter	FP-R98527		w/Pump housing marked R104709, R124059

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
3	Thermostat	FP-AR48675		180 Deg.
1	Thermostat Gasket	FP-R81274		w/3 thermostats

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	FP-R49483		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
4	O-Ring	FP-R47153		Oil bypass valve housing
1	O-Ring	FP-R47153		Cooler tube
1	Oil Cooler Top Gasket	FP-R49491		Front gskt.
1	Oil Cooler Top Gasket	FP-R49490		Rear gskt.

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE20768		Front pump bearing seal; w/Pump housing marked R74445, R86780, R104709
1	Oil Seal	FP-RE20767		Rear pump bearing seal; w/Pump housing marked R74445, R86780, R104709

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-SK13310		Incl. Seal & Wear sleeve
1	Crankshaft Rear Housing Gskt.	FP-R35043		

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-R71732		Pump outlet tube; Pump codes 5001, 5002; w/Pump marked R62946
1	Oil Pump Intake Gasket	FP-R100569		w/Oil pump housing marked R62946, R124328

(continued on next page)

* New Item — Check For Availability

Industrial Applications **6101D Eng.** **40**
10.1L 616.7 (10109cc) OHV Diesel L6 (Litre Engine), 130mm Bore **(cont.)**

CRANKSHAFT/OIL PUMP (cont.)

QTY	OIL PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
1	Oil Pump Intake Gasket	**FP-R74464**		Pick-up screen; w/Alum. oil pan; Early design
1	Oil Pump to Block Gasket	**FP-R69418**		
1	Oil Pump Intake Elbow Gasket	**FP-R71312**		Oil pump code 5002
1	Oil Press. Reg. Hsg. Gasket	**FP-R49485**		w/one hole
1	Oil Press. Reg. Hsg. Gasket	**FP-R49484**		w/two holes
1	Oil Filter Body Gasket	**FP-R82943**		

Industrial Applications **6101T Eng.** **41**
10.1L 616.7 (10109cc) OHV Turbo-Diesel L6 (Litre Engine), 130mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R74365**		Rocker arm cover code 1104

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	**FP-T20328**		Rocker arm cover code 1104

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	**FP-R80970**		1 Hole
2	Exhaust Manifold Gasket	**FP-R80969**		2 Holes

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Injector Pump Gasket	**FP-R35349**		Gear cover; w/Cover code 7701
6	Washer	**FP-R84472**		Injector nozzle; Nozzle codes 1601, 1602, 1610, 1611, 1613, 1614, 1632; .290" X .715" X .079"
6	Fuel Injector Nut	**FP-R79604**		Injection pump; Line codes 1601, 1602, 1610, 1611, 1612, 1613, 1614, 1632
2	Washer Type Seal	**FP-R51936**		Fuel pump lube line codes 1601, 1602, 1611, 1612, 1613, 1632

QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
6	O-Ring	**FP-R77551**		6101T Engs.; Leak-off fitting to nozzle; Nozzle codes 1601, 1603, 1612, 1632; Viton®
6	O-Ring	**FP-R51603**		Fuel nozzle; w/Bosch injector

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	**FP-R105346**		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Shaft	**FP-R82051**		w/Pump housing marked R104709, R124059
1	Water Pump Impeller	**FP-R82050**		w/Pump housing marked R104709, R124059
2	Ball Brg.	**FP-JD10329**		w/Pump housing marked R104709, R124059
1	Water Pump Housing Gasket	**FP-R99785**		w/Pump housing marked R104709, R124059
2	Water Pump Mounting Gasket	**FP-R49495**		w/Pump housing marked R104709, R124059
1	O-Ring	**FP-R72328**		Water tube to thermostat housing seal; Turbo line codes 6501, 6502, 6503
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked R104709, R124059

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
3	Thermostat	**FP-AR48675**		180 Deg.
1	Thermostat Gasket	**FP-R81274**		w/3 thermostats

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	**FP-R49483**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
4	O-Ring	**FP-R47153**		Oil bypass valve housing
1	O-Ring	**FP-R47153**		Cooler tube
1	Oil Cooler Top Gasket	**FP-R49491**		Front gskt.
1	Oil Cooler Top Gasket	**FP-R49490**		Rear gskt.

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE20768**		Front pump bearing seal; w/Pump housing marked R74445, R86780, R104709
1	Oil Seal	**FP-RE20767**		Rear pump bearing seal; w/Pump housing marked R74445, R86780, R104709

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-SK13310**		Incl. Seal & Wear sleeve

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41 (cont.) *Industrial Applications* 6101T Eng.
10.1L 616.7 (10109cc) OHV Turbo-Diesel L6 (Litre Engine), 130mm Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	SEALS - REAR CRANK (cont.)	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Housing Gskt.	FP-R35043		

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-R71732		Pump outlet tube; Pump codes 5001, 5002; w/Pump marked R62946
1	Oil Pump Intake Gasket	FP-R100569		w/Oil pump housing marked R62946, R124328
1	Oil Pump Intake Gasket	FP-R74464		Pick-up screen; w/Alum. oil pan; Early design
1	Oil Pump to Block Gasket	FP-R69418		
1	Oil Pump Intake Elbow Gasket	FP-R71312		Oil pump code 5002
1	Oil Press. Reg. Hsg. Gasket	FP-R49485		w/one hole
1	Oil Press. Reg. Hsg. Gasket	FP-R49484		w/two holes
1	Oil Filter Body Gasket	FP-R82943		

42 *Industrial Applications* 6101T, 6619TA Engs.
10.1L 619 OHV Turbo-Diesel L6, 5.125" Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R74365		6619A Engs.; Rocker arm cover codes 1102, 1104; To Ser. No. 50,465
1	Head Gasket	FP-RE34009		
1	Head Set	FP-RE37417		
1	Ventilator Housing Gasket	FP-R49492		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R75690		Chrome plated stem; 2.0310" Head Dia., .4341" Stem Dia., 6.6620" O.A.L.
6	Exhaust	FP-R63982		1.8750" Head Dia., .4341" Stem Dia., 6.6550" O.A.L.
12	Valve Stem Cap	FP-R40366		Exh. & Int.; From Ser. No. 21,562
24	Keeper	FP-R35431		Exh. & Int.
24	Keeper	VK-140		Exh. & Int.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R60537	*STD*	
6	Int.	FP-R59894	*STD*	

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	FP-R53192		.4375" ID, 3.1880" O.A.L.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
6	Spring	FP-R49569		Inner
6	Spring	FP-R49571		Outer; 2.5200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-R81086		Exh. & Int.
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover code 1104; Oil filler neck code 1201

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; 6619A Engs.; Delco-Remy No. 1105510; 24 Volt, 40 amp alternator
1	Ball Brg.	FP-JD9449		Front; 6619A Engs.; Delco-Remy Nos. 1101268, 1101345, 1102932, 1103128, 1105174; Code 3103; 12 Volt, 72 amp alternator
1	Ball Brg.	FP-JD9449		Front; 6619A Engs.; Motorola No. 70D42076T02; Code 3101; 12 Volt, 65 amp alternator
1	Ball Brg.	FP-JD9449		Front; 6619A Engs.; Motorola Remanufactured; Code 3102; 12 Volt, 51 amp alternator; 55 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; 6619A Engs.; Motorola No. 70D42179T02; 24 Volt, 45 amp alternator; To Ser. No. 59,456

METERS

QTY	METERS	PART NO.	SIZE	DESCRIPTION
1	Speed/Hour Meter Gasket	FP-R62410		Tach. drive codes 3300, 3303; From Ser. No. 46,656
1	Speed/Hour Meter Gasket	FP-R44853		Tach. drive codes 3300, 3303; To Ser. No. 46,655

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	FP-R80970		To Ser. No. 60,152; 1 Hole
2	Exhaust Manifold Gasket	FP-R80969		To Ser. No. 60,152; 2 Holes
3	Intake Manifold Gasket	FP-R40088		Two Int. holes

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FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	*PART NO.*	SIZE	DESCRIPTION
1	Injector Pump Gasket	**FP-R35349**		6619A Engs.; Gear cover
1	Injector Pump Gasket	**FP-R35349**		6619T Engs.; Gear cover; w/Cover marked R55506
12	Washer	**FP-R48693**		Inj. leak-off screw
6	Washer	**FP-R64840**		6619A Engs.; Injector nozzle; Nozzle codes 1601, 1606, 1608, 1610; From Ser. No. 50,465; Steel
6	Washer	**FP-R64840**		6619A Engs.; Injector nozzle; Nozzle codes 1601, 1606, 1637; To Ser. No. 27,969; Steel
6	Washer	**FP-R64840**		6619A Engs.; Injector nozzle; Nozzle codes 1606, 1608; From Ser. No. 27,970 to Ser. No. 50,464; Steel
6	Washer	**FP-R64840**		6619T Engs.; Steel
6	Fuel Injector Nut	**FP-R79604**		Injection pump; Line codes 1601, 1608, 1610, 1637
19	Clamp	**FP-R34766**		6619A Engs.; Pump codes 1601, 1606; To Ser. No. 27,969
6	Fuel Line Connector Gasket	**FP-R59294**		Leak-off connector washer; Aftercooled; w/Connector R59293, R77850, R83558; Alum.
12	Washer Type Seal	**FP-R51936**		6619A Engs.; Leak-off & return line seals; Injection pump codes 1601, 1606, 1608, 1610, 1637
12	Washer Type Seal	**FP-R51936**		6619T Engs.; Leak-off & return line seals

QTY	FUEL FILTERS & PUMP	*PART NO.*	SIZE	DESCRIPTION
6	O-Ring	**FP-R51603**		Fuel nozzle; w/Bosch injector
1	O-Ring	**FP-R375R**		Fuel check valve seal

QTY	TURBOCHARGER	*PART NO.*	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	**FP-R75691**		6619A Engs.; w/Turbo oil line codes 6501, 6502
1	Turbocharger Oil Drain Gasket	**FP-R75691**		6619T Engs.; w/Turbo oil line code 6503
1	Turbocharger Mounting Gasket	**FP-R49697**		
1	O-Ring	**FP-R57517**		6619A Engs.; Manifold to turbo coupling seal; Int. manifold codes 2802, 2803
1	O-Ring	**FP-R57517**		6619T Engs.; Manifold to turbo coupling seal
1	O-Ring	**FP-R49424**		Outer coupling; Manifold codes 2802, 2803
1	Turbocharger Oil Supply Gskt.	**FP-R58222**		6619A Engs.; Turbo codes 6501, 6502
1	Turbocharger Oil Supply Gskt.	**FP-R58222**		6619T Engs.; Turbo code 6503

COOLING SYSTEM

QTY	WATER PUMP	*PART NO.*	SIZE	DESCRIPTION
1	Water Pump Shaft	**FP-R82053**		6619A Engs.; w/Pump housing marked R65237
1	Water Pump Shaft	**FP-R82051**		6619A Engs.; w/Pump housing marked R67350, R74445, R86780, R98303, R104709
1	Water Pump Shaft	**FP-R82052**		6619T Engs.; w/Pump housing marked R66661
1	Water Pump Impeller	**FP-R135265**		6619A Engs.; w/Pump housing marked R124057
1	Water Pump Impeller	**FP-R82050**		6619A Engs.; w/Pump housing marked R74445, R86780, R104709
1	Water Pump Impeller	**FP-R84180**		6619A Engs.; Pump code 2025; w/Pump housing marked R23992
1	Water Pump Repair/Rebuild Kit	**FP-RE69842**		w/Pump housing marked R65237
1	Water Pump Repair/Rebuild Kit	**FP-RE69845**		w/Pump housing marked R67350
1	Water Pump Repair/Rebuild Kit	**FP-RE68319**		Pump code 2025; w/Pump housing marked R74445, R86780, R104709
1	Water Pump Repair/Rebuild Kit	**FP-RE69840**		6619A Engs.; w/Pump housing marked R48818, R58705, R124257; From Ser. No. 35,958
1	Water Pump Repair/Rebuild Kit	**FP-RE69927**		6619A Engs.; w/Pump housing marked R74445, R86780, R104709
1	Water Pump Repair/Rebuild Kit	**FP-RE69841**		6619T Engs.; w/Pump housing marked R66661
1	Water Pump Housing Gasket	**FP-R99785**		6619A Engs.; w/H/D water pump; w/Pump housing marked R74445, R86780, R104709
1	Water Pump Housing Gasket	**FP-R69415**		6619A Engs.; w/Pump housing marked R58705
1	Water Pump Housing Gasket	**FP-R66093**		6619T Engs.; w/Pump marked R66661
1	Water Pump Mounting Gasket	**FP-R49495**		w/H/D water pump; w/Pump housing marked R74445, R86780, R104709
1	Water Pump Mounting Gasket	**FP-R49495**		w/Pump housing marked R58705, R124057
1	Oil Seal	**FP-AR90860**		6619A Engs.; Pump code 2003; w/H/D water pump
1	O-Ring	**FP-R72328**		6619A Engs.; Turbo line codes 6501, 6502, 6503
1	O-Ring	**FP-R72328**		6619T Engs.; Turbo line code 6503
1	Shaft & Bearing Assembly	**FP-AU43144**		6619A Engs.; w/Pump housing marked R124057

QTY	THERMOSTAT	*PART NO.*	SIZE	DESCRIPTION
3	Thermostat	**FP-AR72852**		6619A Engs.; Thermostat code 2204; Thermostat housing code 3903; Housing marked R57513;; 192 Deg.
3	Thermostat	**FP-AR48675**		6619A Engs.; Thermostat housing code 3903; Housing marked R57513; 180 Deg.
3	Thermostat	**FP-AR48675**		6619T Engs.; 180 Deg.
3	Thermostat	**FP-AR72852**		6619T Engs.; 192 Deg.

(continued on next page)

42 (cont.) *Industrial Applications* 6101T, 6619TA Engs.
10.1L 619 OHV Turbo-Diesel L6, 5.125" Bore

COOLING SYSTEM (cont.)

QTY	THERMOSTAT (cont.)	PART NO.	SIZE	DESCRIPTION
1	Thermostat Gasket	FP-R81274		w/3 thermostats

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	FP-R88397		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	FP-R49483		w/Timing gear cover marked R48835, R67342, R110147
1	Front Cover Gasket	FP-R49483		w/Timing gear cover marked R77301
1	Oil Pan Gasket	FP-R71919		6619A Engs.
1	Oil Pan Gasket Set	FP-PG501PS		6619T Engs.; w/Crankshaft driven oil pump; w/Cast Iron oil pan.; From Ser. No. 020,331
1	Oil Pan Gasket Set	FP-PG500PS		6619T Engs.; w/Crankshaft driven oil pump; w/Cast Iron oil pan; Thin gskt.

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	In-Frame Gasket Set	FP-PG619S		6619T Engs.
1	Complete Overhaul Gasket Set	FP-RE37416		Crankshaft seals not incl.
1	Complete Overhaul Gasket Set	FP-RE37416WS		6619A Engs.; Crankshaft seals incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-4R46903	*STD*	
4	Cam Brg.	FP-R46903	*STD*	

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket Set	FP-500A		6619A Engs.
2	Aftercooler Housing Gasket	FP-R53081		6619A Engs.
1	O-Ring	FP-R47153		Cooler tube
2	O-Ring	FP-R47153		Water manifold; 6619A Engs.; Water manifold codes 2802, 2803
2	Oil Cooler Housing Gasket	FP-R57504		
1	Oil Cooler Top Gasket	FP-R49491		Oil cooler to regulator housing front
1	Oil Cooler Top Gasket	FP-R49490		Oil cooler to regulator housing rear

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-AR92533		6619A Engs.; From Ser. No. 33,814; Crankshaft marked R63476, AR78403

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE20768		6619A Engs.; Front pump bearing seal; w/Pump housing marked R74445, R86780, R104709
1	Oil Seal	FP-RE20767		6619A Engs.; Rear pump bearing seal; w/Pump housing marked R74445, R86780, R104709
1	Oil Seal Kit	FP-AR49025		
1	Oil Seal Kit	FP-RE68318		6619A Engs.; w/Pump housing marked R74445, R86760, R104709, R124057; From Ser. No. 39,358

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE13310		
1	Oil Seal Kit	FP-SK13310		Incl. Seal & Wear sleeve
1	Crankshaft Rear Housing Gskt.	FP-R35043		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-MBK531	*STD*	w/full groove lower brg.; Flanged No. 5 brg.
1	Main Set	FP-MBK53110	*10*	w/full groove lower brg.; Flanged No. 5 brg.
1	Main Set	FP-MBK53120	*20*	w/full groove lower brg.; Flanged No. 5 brg.
1	Main Set	FP-MBK53130	*30*	w/full groove lower brg.; Flanged No. 5 brg.
1	Main Set	FP-MBK619	*STD*	w/partial groove lower brg.
1	Main Set	FP-MBK61910	*10*	w/partial groove lower brg.
1	Main Set	FP-MBK61920	*20*	w/partial groove lower brg.
1	Main Set	FP-MBK61930	*30*	w/partial groove lower brg.
6	Plain Main Brg.	FP-AR101268	*STD*	
6	Plain Main Brg.	FP-AR104122	*.25MM*	
6	Plain Main Brg.	FP-AR104123	*.50MM*	
6	Plain Main Brg.	FP-AR104124	*.75MM*	
1	Plain Main Brg.	FP-AR101269	*STD*	Use w/Thrust Washer Set
1	Plain Main Brg.	FP-AR104126	*.25MM*	Use w/Thrust Washer Set
1	Plain Main Brg.	FP-AR104127	*.50MM*	Use w/Thrust Washer Set
1	Plain Main Brg.	FP-AR104128	*.75MM*	Use w/Thrust Washer Set
1	Thrust Washer Set	FP-AR89622	*STD*	
1	Thrust Washer Set	FP-AR89971	*7*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-R71732		6619A Engs.; Pump outlet tube; w/Pump marked R69946; To Ser. No. 46,655

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CRANKSHAFT/OIL PUMP (cont.)

QTY	OIL PUMP (cont.)	PART NO.	SIZE	DESCRIPTION
2	O-Ring	**FP-R71732**		6619A Engs.; Pump outlet tube; Pump code 1901; w/Pump marked R69946; w/Cast iron oil pan; From Ser. No. 46,656 to Ser. No. 61,565
1	O-Ring	**FP-R495R**		Ventilator tube; 6619A Engs.; Smooth
1	Oil Pump Intake Gasket	**FP-R100569**		w/Oil pump housing marked R62946; Oil pump pickup codes 1901, 1906
1	Oil Pump Intake Gasket	**FP-R74464**		6619T Engs.; Pick-up screen; w/Alum. oil pan
1	Rect. or Square Seal	**FP-R43660**		Filter to housing; w/housing marked R48349, R68157, R71485
1	Oil Pump to Block Gasket	**FP-R69418**		
1	Oil Pump Intake Elbow Gasket	**FP-R71312**		6619T Engs.; w/Alum. oil pan; Oil pan code 1916
1	Oil Press. Reg. Hsg. Gasket	**FP-R49485**		w/Housing marked R48349, R68157, R71485; w/one hole
1	Oil Filter Body Gasket	**FP-R82943**		Timing gear cover code 1299; Filter code 1201
1	Pick-Up Tube Gasket	**FP-R70475**		Oil pump code 1901; w/Cast iron oil pan; To Ser. No. 20,330

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R77640**		From Ser. No. 49,060
6	Liner w/o Sealing Ring	**FP-R65629**		To Ser. No. 49,059
6	Liner w/Sealing Rings	**FP-R77640WS**		From Ser. No. 49,060
6	Liner w/Sealing Rings	**FP-R65629WS**		To Ser. No. 49,059
6	Cylinder Kit Complete	**FP-AR84089**		w/Block marked R57424, R63199, R65628, R69312, R72130, R74123; w/Con. Rod marked R57484, R66925; To Ser. No. 33,814
6	Cylinder Kit Complete	**FP-RE20291**	*STD*	w/Block marked R57424, R63199, R65628, R69312, R72130, R74123; w/Con. Rod marked R63959; From Ser. No. 33,815 to Ser. No. 49,059
6	Cylinder Kit Complete	**FP-RE40476**		w/Block marked R75934, R87752, R88217; w/Con. Rod marked R63959; From Ser. No. 49,060
6	Cyl. Liner Sealing Ring Kit	**FP-AR72351**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-RE42231**		From Ser. No. 33,815
6	Piston Body w/o Pin	**FP-AR69038**		To Ser. No. 33,814
6	Piston Kit w/Pin & Retainers	**FP-RE42231WP**		From Ser. No. 33,815
6	Piston Kit w/Pin & Retainers	**FP-AR69038WP**		To Ser. No. 33,814
6	Pin	**FP-R64451**		
12	Piston Pin Retainer	**FP-N51168**		
6	Pin Bushing	**FP-3819Y20**		w/Con. Rod marked R63959; w/1.999" ID, w/2.187" OD, 2.0512 O.A.L.
6	Pin Bushing	**FP-R69045**		w/Con. Rod marked R63959; w/1.999" ID, w/2.187" OD, 2.0512" O.A.L.
6	Pin Bushing	**FP-R60197**		6619A Engs.; To Ser. No. 33,814; w/Con. Rod marked R57484, R66925; w/1.9987" ID, 2.1872" OD, 2.029" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R66453**		w/Con. Rod marked R57484, R66925; To Ser. No. 33,814; Torque-To-Yield bolt; Replacement recommended
12	Con. Rod Bolt	**FP-R66453**		w/Con. Rod marked R63959; From Ser. No. 33,815; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	**FP-AR101271**	*STD*	w/o oil hole & groove
6	Rod Pair	**FP-AR104130**	*.25MM*	w/o oil hole & groove
6	Rod Pair	**FP-AR104131**	*.50MM*	w/o oil hole & groove
6	Rod Pair	**FP-AR104132**	*.75MM*	w/o oil hole & groove
6	Rod Pair	**FP-AR53020**	*STD*	w/oil hole; w/partial groove
6	Rod Pair	**FP-AR57208**	*10*	w/oil hole; w/partial groove
6	Rod Pair	**FP-AR57209**	*20*	w/oil hole; w/partial groove
6	Rod Pair	**FP-AR57210**	*30*	w/oil hole; w/partial groove

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-AR82355**	*STD*	

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	**FP-619EIFK**		w/Block marked R57424, R63199, R65628, R69312, R72130, R74123; w/Con. Rod marked R57484, R66925; To Ser. No. 33,814; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	**FP-619MIFK**		w/Block marked R57424, R63199, R65628, R69312, R72130, R74123; w/Con. Rod marked R63959; From Ser. No. 33,815 to Ser. No. 49,059; Incl. Torque-To-Yield con. rod bolts

(continued on next page)

42 (cont.) *Industrial Applications* 6101T, 6619TA Engs.
10.1L 619 OHV Turbo-Diesel L6, 5.125" Bore

KITS (cont.)

QTY	OVERHAUL KIT (cont.)	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-619LIFK		w/Block marked R75934, R87752, R88217; w/Con. Rod marked R63959; From Ser. No. 49,060; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-619EOHK		w/Block marked R57424, R63199, R65628, R69312, R72130, R74123; w/Con. Rod marked R57484, R66925; To Ser. No. 33,814; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-619MOHK		w/Block marked R57424, R63199, R65628, R69312, R72130, R74123; w/Con. Rod marked R63959; From Ser. No. 33,815 to Ser. No. 49,059; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-619LOHK		w/Block marked R75934, R87752, R88217; w/Con. Rod marked R63959; From Ser. No. 49,060; Incl. Torque-To-Yield con. rod bolts

43 *Industrial Applications* 6105A, 6105T Engs.
10.5L 639.5 (10483cc) OHV Turbo-Diesel L6 (PowerTech), 127mm Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
48	Keeper	FP-R91889		6105A Engs.

FUEL SYSTEM & PARTS

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		6105A Engs.; w/Turbo oil line codes 6501, 6502, 6503, 6504, 6505, 6506
1	Turbocharger Mounting Gasket	FP-R49697		6105A Engs.

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
2	Ball Brg.	FP-JD10329		6105A Engs.; Fan hub shaft bearing; Code 2303
1	Ball Brg.	FP-JD10362		Front; 6105A Engs.; Water Pump bearing; Code 2001
1	Ball Brg.	FP-JD10363		Rear; 6105A Engs.; Water Pump bearing; Code 2001
1	Oil Seal	FP-RE39134		6105A Engs.; Water pump code 2001
1	Oil Seal	FP-RE39134		6105A Engs.; Rear water pump seal; Water pump code 2001

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-RE33705		Upper; 6105A Engs.; 180 Deg.

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE20768		6105A Engs.; Fan hub shaft seal; w/Pump housing marked R129075

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Housing Gskt.	FP-R35043		6105A Engs.

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR72351		Piston, Con. Rod, Cyl. liner codes 6105, 6125; w/Liner marked RE66125

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R64451		Piston, Con. Rod, Cyl. liner codes 6105, 6125
12	Piston Pin Retainer	FP-N51168		Piston, Con. Rod, Cyl. liner codes 6105, 6125

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R66453		Piston, Con. Rod, Cyl. liner codes 6105, 6125; w/Rod marked R121174; Torque-To-Yield bolt; Replacement recommended

44 *Industrial Applications* 6125T Eng.
12.5L 764.6 (12534cc) OHV Turbo-Diesel L6 (PowerTech), 127mm Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
48	Keeper	FP-R91889		

CAMSHAFT GROUP

QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Idler Sprocket/Gear Bushing	FP-R533789		

(continued on next page)

Industrial Applications **6125T Eng.** **44**
12.5L 764.6 (12534cc) OHV Turbo-Diesel L6 (PowerTech), 127mm Bore **(cont.)**

FUEL SYSTEM & PARTS

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	**FP-R105346**		w/Turbo oil line codes 6501, 6502, 6503, 6504, 6505, 6506
1	Turbocharger Mounting Gasket	**FP-R49697**		

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
2	Ball Brg.	**FP-JD10329**		Fan hub shaft bearing code 2303
1	Ball Brg.	**FP-JD10362**		Front; Water Pump bearing code 2001
1	Ball Brg.	**FP-JD10363**		Rear; Water Pump bearing code 2001
1	Oil Seal	**FP-RE39134**		Rear water pump seal; Water pump code 2001

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	**FP-RE33705**		Upper; 180 Deg.

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE20768**		Fan hub shaft seal; w/Pump housing marked R104709, R124059

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Housing Gskt.	**FP-R35043**		

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	**FP-AR72351**		Piston, Con. Rod, Cyl. liner code 4801

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	**FP-R64451**		Piston, Con. Rod, Cyl. liner code 4801
12	Piston Pin Retainer	**FP-N51168**		Piston, Con. Rod, Cyl. liner code 4801
6	Pin Bushing	**FP-R69045**		w/Con. Rod marked R121174; w/1.999" ID, w/2.187" OD, 2.0512" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R66453**		Piston, Con. Rod, Cyl. liner code 4801; Rod marked R121174; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	**FP-RE530787 ***	*STD*	

John Deere Marine

Engine Finding Index

Engine	Line No.	Engine	Line No.
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	1	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	9
4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	2	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	10
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	3	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	11
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	4	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	12
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	5	9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V IC)	13
6.8L 413.8 (6784cc) OHV Diesel L6 106mm Bore (PowerTech 2V)	6	9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V AC)	14
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	7	9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V)	15
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	8	12.5L 764.6 (12534cc) OHV Turbo-Diesel L6 127mm Bore (PowerTech)	16

Engine Code Index

Engine Code	Engine Description	Line No.	Engine Code	Engine Description	Line No.
4045DFM ... Marine Applications	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	2	4045DFM70 ... Marine Applications	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	2
4045DFM50 ... Marine Applications	4.5L 275.8 (4522cc) OHV Diesel L4 106mm Bore (PowerTech 2V)	2	4045SFM ... Marine Applications	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V IC)	1

(continued on next page)

Engine Code Index

Engine Code	Engine Description	Line No.
4045TFM ... Marine Applications	4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 106mm Bore (PowerTech 2V)	3
6068DFM ... Marine Applications	6.8L 413.8 (6784cc) OHV Diesel L6 106mm Bore (PowerTech 2V)	6
6068SFM ... Marine Applications	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	4
6068SFM ... Marine Applications	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	5
6068SFM75 ... Marine Applications	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V IC)	4
6068SFM75 ... Marine Applications	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 4V IC)	5
6068TFM ... Marine Applications	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (Litre Engine)	7
6068TFM ... Marine Applications	6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 106mm Bore (PowerTech 2V)	8
6076TFM ... Marine Applications	7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 115mm Bore (Litre Engine)	9
6081AFM ... Marine Applications	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	11
6081AFM01 ... Marine Applications	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V AC)	11
6081SFM ... Marine Applications	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V IC)	10
6081TFM ... Marine Applications	8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 116mm Bore (PowerTech 2V)	12
6090AFM75 ... Marine Applications	9.0L 549 (9000cc) OHV Turbo-Diesel L6 118.4mm Bore (PowerTech 4V AC)	14
6125TFM ... Marine Applications	12.5L 764.6 (12534cc) OHV Turbo-Diesel L6 127mm Bore (PowerTech)	16

1 *Marine Applications* 4045H PowerTech Eng. (2-Valve Cyl. Head)

4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 2V IC), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123542		
1	Head Gasket	FP-R116515		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R98062	STD	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
4	Intake	FP-R97490	15	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
4	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
4	Exhaust	FP-R97492	15	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
16	Keeper	FP-R91889		Exh. & Int.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-R26125		Exh. & Int.; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	FP-RE60005		Exh. & Int.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-RE31617		Positive type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3005, 3006, 3010, 3011, 3012

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
4	Fuel Injector Nozzle	FP-RE48786		Nozzle codes 16BF, 16CE, 16CM, 16GL, 16LP, 16LQ, 16NH, 160R, 160S, 1606, 1608, 1675, 1677, 1682, 1683, 1692, 1694, 1695
4	Fuel Injector Nozzle	FP-RE48786		4045H Engs.; Nozzle codes 160B, 160C, 1610, 1611, 1656, 1667

(continued on next page)

Marine Applications **4045H PowerTech Eng. (2-Valve Cyl. Head)** **1**
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 2V IC), 106mm Bore **(cont.)**

FUEL SYSTEM & PARTS (cont.)

QTY	FUEL INJECTION (cont.)	PART NO.	SIZE	DESCRIPTION
4	Fuel Injector Seal	**FP-R92352**		Upper packing; w/Injector nozzle codes 16BF, 16CE, 16CM, 16CV, 16GL, 16LP, 16LQ, 16NH, 16OR, 1605, 1606, 1608, 1656, 1667, 1675, 1677, 1682, 1683, 1692, 1694, 1695
4	Fuel Injector Seal	**FP-R92352**		4045H Engs.; Upper packing; w/Injector nozzle codes 160B, 160C, 1610, 1611
4	Fuel Injector Nut	**FP-R79604**		w/Injector nozzle codes 16HM, 16HN, 16HP, 16HQ, 16LK, 16LL
1	Washer Type Seal	**FP-R51936**		Aux. drive line; Line codes 5201, 5202, 5203, 5205, 5206
2	Washer Type Seal	**FP-R51936**		Fuel line; Aftercooled; Line codes 160B, 1611
2	Washer Type Seal	**FP-R51936**		Fuel line; Line codes 16BF, 16CE, 16CM, 16CV, 16GL, 16LN, 16LP, 16LQ, 16NH, 16OR, 1605, 1671, 1677, 1682

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Filter	**FP-R98527**		w/Pump housing marked RE70683

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	**FP-R97342**		Oil pan codes 1904, 1905; w/Stamped Steel Pan
2	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R119874**		

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
4	Balance Shaft Bearing	**FP-R115299**		Balance shaft code 4501

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Plain Main Brg.	**FP-RE65165**	*STD*	Crankshaft and Bearing code 4701
4	Plain Main Brg.	**FP-RE65911**	*.25MM*	Crankshaft and Bearing code 4701
1	Flanged Main Brg.	**FP-RE65168**	*STD*	Crankshaft and Bearing code 4701
1	Flanged Main Brg.	**FP-RE65912**	*.25MM*	Crankshaft and Bearing code 4701

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	**FP-R121867**	*STD*	
4	Cylinder Kit Complete	**FP-RE507920**	*STD*	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562
4	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	**FP-RE505100**	*STD*	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin
4	Piston Body w/o Pin	**FP-RE55512**	*STD*	Piston, Con. Rod, Cyl. liner code 4809; Large Pin; w/Con. Rod marked R500335
4	Pin	**FP-R123178**		Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.
4	Pin	**FP-R123177**		Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335; Large Pin; 1.62" pin dia.
8	Piston Pin Retainer	**FP-M41029**		w/Con. Rod marked R123959; Small Pin; For 1.38" pin dia.
8	Piston Pin Retainer	**FP-R54114**		w/Con. Rod marked R500335; Large Pin; For 1.62" pin dia.
4	Pin Bushing	**FP-R123960**		w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.
4	Pin Bushing	**FP-R114082**		w/Con. Rod marked R500335; Large Pin
4	Piston Pin Kit	**FP-RE63915**		4045H Engs.; Piston, Con. Rod, Cyl. liner code 4809; w/Con. Rod marked R500335; Large Pin; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	**FP-R114083**		Cyl. Liner code 4803; w/Con. Rod marked R123959; To Ser. No. 793,991; Small Pin
8	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4803; w/Con. Rod marked R123959, R500000; From Ser. No. 36,628
8	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4809; w/Con. Rod marked R500000; From Ser. No. 36,628
8	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4809; w/Con. Rod marked R500335; From Ser. No. 36,628
8	Con. Rod Bolt	**FP-R114083**		Cyl. Liner code 4809; w/Con. Rod marked R500335; To Ser. No. 793,991
8	Con. Rod Bolt	**FP-R114083**		Cyl. Liner code 4809; w/Con. Rod marked R500335; To Ser. No. 793,991; Small Pin

(continued on next page)

1 (cont.) *Marine Applications* **4045H PowerTech Eng. (2-Valve Cyl. Head)**
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 2V IC), 106mm Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS. (cont.)	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-RE65908	STD	Cyl. Liner code 4809; w/Con. Rod marked R500335
4	Rod Pair	FP-RE65909	.25MM	Cyl. Liner code 4809; w/Con. Rod marked R500335
4	Rod Pair	FP-RE65908	STD	Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959, R500000
4	Rod Pair	FP-RE65909	.25MM	Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959, R500000

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE66271	STD	Use w/piston marked RE520589
4	Ring Set Single Cylinder	FP-RE507852	STD	Use w/FP-RE55512 piston; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66820	STD	Use w/FP-RE55512 piston; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFKPT4045T		Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562

2 *Marine Applications* **4045D PowerTech Eng.**
4.5L 275.8 (4522cc) OHV Diesel L4 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123542		
1	Head Gasket	FP-R116515		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R98062	STD	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
4	Intake	FP-R97490	15	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
4	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
4	Exhaust	FP-R97492	15	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
16	Keeper	FP-R91889		Exh. & Int.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-R26125		Exh. & Int.; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	FP-RE60005		Exh. & Int.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-RE31617		Exh. & Int.; Positive type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor code 3012

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
4	Fuel Injector Nozzle	FP-RE48786		Nozzle codes 16BG, 16BH, 1603
4	Fuel Injector Seal	FP-R92352		Upper packing; w/Injector nozzle codes 16HR, 16HS, 16HT, 16HU
4	Fuel Injector Nut	FP-R79604		w/Injector nozzle codes 16HR, 16HS, 16HT, 16HU

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
4	Balance Shaft Bearing	FP-R115299		Balance shaft code 4502

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Plain Main Brg.	FP-RE65165	STD	Crankshaft and Bearing code 4701; w/Crankshaft marked R113596
4	Plain Main Brg.	FP-RE65911	.25MM	Crankshaft and Bearing code 4701; w/Crankshaft marked R113596
1	Flanged Main Brg.	FP-RE65168	STD	Crankshaft and Bearing code 4701; w/Crankshaft marked R113596
1	Flanged Main Brg.	FP-RE65912	.25MM	Crankshaft and Bearing code 4701; w/Crankshaft marked R113596

(continued on next page)

Marine Applications **4045D PowerTech Eng.** **2**
4.5L 275.8 (4522cc) OHV Diesel L4 (PowerTech 2V), 106mm Bore **(cont.)**

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	FP-R121867	STD	
4	Liner w/Sealing Rings	FP-RE500024	STD	
4	Cylinder Kit Complete	FP-RE65966	STD	Piston, Con. Rod, Cyl. liner code 4801
4	Cylinder Kit Complete	FP-RE507920	STD	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562
4	Cyl. Liner Sealing Ring Kit	FP-AR65507		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-RE505101	STD	Piston, Con. Rod, Cyl. liner code 4801
4	Piston Body w/o Pin	FP-RE505100	STD	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562; w/Con. Rod marked R123959; Small Pin
4	Pin	FP-R123178		Piston, Con. Rod, Cyl. liner code 4801; 1.375" pin dia.
8	Piston Pin Retainer	FP-M41029		Small Pin; For 1.38" pin dia.
4	Pin Bushing	FP-R123960		w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	FP-R501124		Cyl. Liner code 4801, 4803; w/Con. Rod marked R123959, R500000; From Ser. No. 36,628
8	Con. Rod Bolt	FP-R114083		Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959; To Ser. No. 793,991; Small Pin
4	Rod Pair	FP-RE65908	STD	Cyl. Liner code 4801; w/Con. Rod marked R123959
4	Rod Pair	FP-RE65909	.25MM	Cyl. Liner codes 4801, 4803; w/Con. Rod marked R123959, R500000

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE66271	STD	Use w/FP-RE59277 piston

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFKPT4045T		Piston, Con. Rod, Cyl. liner code 4803; Use w/RE59277, RE505100 piston; To Ser. No. 825,562

Marine Applications **4045T PowerTech Eng.** **3**
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123542		
1	Head Gasket	FP-R116515		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-R98062	STD	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
4	Intake	FP-R97490	15	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
4	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
4	Exhaust	FP-R97492	15	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
16	Keeper	FP-R91889		Exh. & Int.

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-R26125		Exh. & Int.; 2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
8	Rotocap	FP-RE60005		Exh. & Int.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-RE31617		Exh. & Int.; Positive type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor code 3012

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
4	Fuel Injector Nozzle	FP-RE48786		Nozzle codes 16HM, 16HN, 16HP, 16HQ, 16LK, 16LL
4	Fuel Injector Seal	FP-R92352		Upper packing; w/Injector nozzle codes 16HM, 16HN, 16HP, 16HQ, 16LK, 16LL
4	Fuel Injector Nut	FP-R79604		w/Injector nozzle codes 16HM, 16HN, 16HP, 16HQ, 16LK, 16LL

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbo Exhaust Int. Cover Gskt	FP-R92097		

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3 (cont.) *Marine Applications* 4045T PowerTech Eng.
4.5L 275.8 (4522cc) OHV Turbo-Diesel L4 (PowerTech 2V), 106mm Bore

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

QTY	ENGINE BEARING MISC.	PART NO.	SIZE	DESCRIPTION
4	Balance Shaft Bearing	FP-R115299		Balance shaft codes 4501, 4502

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Plain Main Brg.	FP-RE65165	STD	Crankshaft and Bearing code 4701; w/Crankshaft marked R113596
4	Plain Main Brg.	FP-RE65911	.25MM	Crankshaft and Bearing code 4701; w/Crankshaft marked R113596
1	Flanged Main Brg.	FP-RE65168	STD	Crankshaft and Bearing code 4701; w/Crankshaft marked R113596
1	Flanged Main Brg.	FP-RE65912	.25MM	Crankshaft and Bearing code 4701; w/Crankshaft marked R113596

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Ring	FP-R121867	STD	
4	Liner w/Sealing Rings	FP-RE500024	STD	
4	Cylinder Kit Complete	FP-RE507920	STD	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562
4	Cyl. Liner Sealing Ring Kit	FP-AR65507		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-RE505100	STD	Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562
4	Piston Body w/o Pin	FP-RE55512	STD	Piston, Con. Rod, Cyl. liner code 4809; Large Pin; w/Con. Rod marked R500335
4	Pin	FP-R123177		Piston, Con. Rod, Cyl. liner codes 4809, 4816; w/Con. Rod marked R500335; Large Pin; 1.62" pin dia.
8	Piston Pin Retainer	FP-R54114		w/Con. Rod marked R500335; Large Pin; For 1.62" pin dia.
4	Pin Bushing	FP-R123960		w/Con. Rod marked R123959; Small Pin; 1.375" pin dia.
4	Pin Bushing	FP-R114082		w/Con. Rod marked R500335; Large Pin
4	Piston Pin Kit	FP-RE63915		Piston, Con. Rod, Cyl. liner codes 4809, 4816; w/Con. Rod marked R500335; Large Pin; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	FP-R501124		Cyl. Liner code 4809; w/Con. Rod marked R500335
4	Rod Pair	FP-RE65908	STD	Cyl. Liner code 4809; w/Con. Rod marked R500335
4	Rod Pair	FP-RE65909	.25MM	Cyl. Liner code 4809; w/Con. Rod marked R500335

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-RE507852	STD	Use w/FP-RE55512 piston; w/piston marked RE520589; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
4	Ring Set Single Cylinder	FP-RE66820	STD	Use w/FP-RE55512 piston; w/piston marked RE520589; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFKPT4045T		Piston, Con. Rod, Cyl. liner code 4803; To Ser. No. 825,562

4 *Marine Applications* 6068H PowerTech Eng. (2-Valve Cyl. Head)
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 2V IC), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123543		
1	Head Gasket	FP-R116516		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R98062	STD	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
6	Intake	FP-R97490	15	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
6	Exhaust	FP-R90692	STD	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
6	Exhaust	FP-R97492	15	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
24	Keeper	FP-R91889		

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

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Marine Applications **6068H PowerTech Eng. (2-Valve Cyl. Head)** **4**
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 2V IC), 106mm Bore **(cont.)**

CYL. HEAD & PARTS (cont.)

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE60005		Exh. & Int.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-RE31617		Exh. & Int.; From Ser. No. 300,000; Positive type
12	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3003, 3006, 3010, 3011, 3013, 3025, 3026

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Nozzle	FP-RE48786		
6	Fuel Injector Seal	FP-R92352		Upper packing
6	Washer Type Seal	FP-R48000		Lower packing
12	Washer Type Seal	FP-R51936		Fuel line; Line codes 1613, 1614, 1615, 1619, 1621, 1622, 1623, 1668, 1678, 1680, 1681, 1685, 1686, 1688, 1697, 160D; To Ser. No. 715,739
12	Washer Type Seal	FP-R51936		Fuel line; Line codes 1619, 1681, 1685, 1686, 1696, 1697, 16CM, 16CN, 16CP, 16CW, 16CX, 16CY, 16DY, 16LS, 16LT, 16LU, 16MG, 16MH, 16ML, 16MM

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Filter	FP-R98527		w/Pump housing marked RE500734, RE70683, RE70985; High Flow

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R123354		
2	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	FP-RE24959		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE65165	*STD*	Crankshaft and Bearing codes 4702, 4703
6	Plain Main Brg.	FP-RE65911	*.25MM*	Crankshaft and Bearing codes 4702, 4703
1	Flanged Main Brg.	FP-RE65168	*STD*	Crankshaft and Bearing codes 4702, 4703
1	Flanged Main Brg.	FP-RE65912	*.25MM*	Crankshaft and Bearing codes 4702, 4703

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R61871		Oil tube from pump to block

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R121867	*STD*	
6	Liner w/Sealing Rings	FP-RE500024	*STD*	
6	Cylinder Kit Complete	FP-RE507920	*STD*	Con. Rod, Bearing & Piston codes 4807
6	Cyl. Liner Sealing Ring Kit	FP-AR65507		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-RE55512	*STD*	Con. Rod Bearing & Piston code 4810
6	Piston Body w/o Pin	FP-RE505100	*STD*	Con. Rod, Bearing & Piston codes 4807
6	Pin	FP-R123178		Con. Rod, Bearing & Piston code 4807; 1.375" pin dia.
6	Pin	FP-R123177		Con. Rod, Bearing & Piston codes 4810; 1.62" pin dia.
12	Piston Pin Retainer	FP-M41029		Con. Rod, Bearing & Piston codes 4805, 4807; For 1.38" pin dia.
12	Piston Pin Retainer	FP-R54114		Con. Rod, Bearing & Piston codes 4810; For 1.62" pin dia.
6	Pin Bushing	FP-R114082		Con. Rod, Bearing & Piston code 4810; w/Con. Rod marked R500335
6	Pin Bushing	FP-R123960		Con. Rod, Bearing & Piston codes 4807, 4810; 1.375" pin dia.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R114083		Cyl. Liner code 4807; w/Con. Rod marked R123959; To Ser. No. 794,054

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4 (cont.) *Marine Applications* 6068H PowerTech Eng. (2-Valve Cyl. Head)
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 2V IC), 106mm Bore

CYLINDER COMPONENTS (cont.)

QTY	CONNECTING RODS & BRGS. (cont.)	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R501124		Cyl. Liner code 4807; w/Con. Rod marked R500000; From Ser. No. 794,055
12	Con. Rod Bolt	FP-R114083		Cyl. Liner code 4810; w/Con. Rod marked R500335
12	Con. Rod Bolt	FP-R501124		Cyl. Liner code 4810; w/Con. Rod marked R500335
12	Con. Rod Bolt	FP-R501124		Cyl. Liner code 4810; w/Con. Rod marked R500335; From Ser. No. 794,055
12	Con. Rod Bolt	FP-R114083		Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335; From Ser. No. 794,055
6	Rod Pair	FP-RE65908	*STD*	Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335
6	Rod Pair	FP-RE65909	*.25MM*	Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE66271	*STD*	Piston & Liner code 4807
6	Ring Set Single Cylinder	FP-RE507852	*STD*	Piston & Liner code 4810; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	FP-RE66820	*STD*	Piston & Liner code 4810; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

5 *Marine Applications* 6068H PowerTech Eng. (4-Valve Cyl. Head)
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 4V IC), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123543		
1	Head Gasket	FP-R116516		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R98062	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
6	Intake	FP-R97490	*15*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
6	Exhaust	FP-R90692	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
6	Exhaust	FP-R97492	*15*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
24	Keeper	FP-R91889		

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	FP-RE60005		Exh. & Int.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-RE31617		Exh. & Int.; From Ser. No. 300,000; Positive type
12	Valve Stem Seal	FP-R87627		Exh. & Int.; O-Ring type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3003, 3006, 3010, 3011, 3013, 3025, 3026

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Seal	FP-R92352		Upper packing
6	Washer Type Seal	FP-R48000		Lower packing
12	Washer Type Seal	FP-R51936		Fuel line; Line codes 1613, 1614, 1615, 1619, 1621, 1622, 1623, 1668, 1678, 1680, 1681, 1685, 1686, 1688, 1697, 160D; To Ser. No. 715,739
12	Washer Type Seal	FP-R51936		Fuel line; Line codes 1619, 1681, 1685, 1686, 1696, 1697, 16CM, 16CN, 16CP, 16CW, 16CX, 16CY, 16DY, 16LS, 16LT, 16LU, 16MG, 16MH, 16ML, 16MM

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Filter	FP-R98527		w/Pump housing marked RE70683, RE70985
1	Water Pump Filter	FP-R98527		w/Pump housing marked R500734; High Flow

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R123354		

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Marine Applications **6068H PowerTech Eng. (4-Valve Cyl. Head)** **5**
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 4V IC), 106mm Bore **(cont.)**

ENGINE BLOCK & PARTS (cont.)

QTY	GASKETS (cont.)	PART NO.	SIZE	DESCRIPTION
2	O-Ring	**FP-U13639**		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R119874**		

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Seal	**FP-RE24959**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	**FP-RE65165**	*STD*	Crankshaft and Bearing codes 4702, 4703
6	Plain Main Brg.	**FP-RE65911**	*.25MM*	Crankshaft and Bearing codes 4702, 4703
1	Flanged Main Brg.	**FP-RE65168**	*STD*	Crankshaft and Bearing codes 4702, 4703
1	Flanged Main Brg.	**FP-RE65912**	*.25MM*	Crankshaft and Bearing codes 4702, 4703

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	**FP-R61871**		Oil tube from pump to block

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R121867**	*STD*	
6	Liner w/Sealing Rings	**FP-RE500024**	*STD*	
6	Cylinder Kit Complete	**FP-RE507920**	*STD*	Con. Rod, Bearing & Piston codes 4807
6	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-RE55512**	*STD*	Con. Rod Bearing & Piston code 4810
6	Piston Body w/o Pin	**FP-RE505100**	*STD*	Con. Rod, Bearing & Piston codes 4807
6	Pin	**FP-R123178**		Con. Rod, Bearing & Piston code 4807; 1.375" pin dia.
6	Pin	**FP-R123177**		Con. Rod, Bearing & Piston codes 4810; 1.62" pin dia.
12	Piston Pin Retainer	**FP-M41029**		Con. Rod, Bearing & Piston codes 4805, 4807; For 1.38" pin dia.
12	Piston Pin Retainer	**FP-R54114**		Con. Rod, Bearing & Piston codes 4810; For 1.62" pin dia.
6	Pin Bushing	**FP-R114082**		Con. Rod, Bearing & Piston code 4810; w/Con. Rod marked R500335
6	Pin Bushing	**FP-R123960**		Con. Rod, Bearing & Piston codes 4807, 4810; 1.375" pin dia.
6	Piston Pin Kit	**FP-RE63915**		Con. Rod, Bearing & Piston codes 4810; Incl. Pin, Retainers & Bushing

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R114083**		Cyl. Liner code 4807; w/Con. Rod marked R123959; To Ser. No. 794,054
12	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4807; w/Con. Rod marked R500000; From Ser. No. 794,055
12	Con. Rod Bolt	**FP-R114083**		Cyl. Liner code 4810; w/Con. Rod marked R500335
12	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4810; w/Con. Rod marked R500335
12	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4810; w/Con. Rod marked R500335; From Ser. No. 794,055
12	Con. Rod Bolt	**FP-R114083**		Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335; From Ser. No. 794,055
6	Rod Pair	**FP-RE65908**	*STD*	Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335
6	Rod Pair	**FP-RE65909**	*.25MM*	Cyl. Liner codes 4807, 4810; w/Con. Rod marked R500000, R500335

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	**FP-RE66271**	*STD*	Piston & Liner code 4807
6	Ring Set Single Cylinder	**FP-RE507852**	*STD*	Piston & Liner code 4810; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	**FP-RE66820**	*STD*	Piston & Liner code 4810; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

Marine Applications **6068D PowerTech Eng.** **6**
6.8L 413.8 (6784cc) OHV Diesel L6 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	**FP-R123543**		
1	Head Gasket	**FP-R116516**		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-R98062**	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
6	Exhaust	**FP-R90692**	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.

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6 (cont.) *Marine Applications* **6068D PowerTech Eng.**
6.8L 413.8 (6784cc) OHV Diesel L6 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE (cont.)	PART NO.	SIZE	DESCRIPTION
24	Keeper	FP-R91889		

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-RE31617		Exh. & Int.; Positive type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3003, 3006, 3010, 3011, 3013, 3025, 3026

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
1	Air Intake Gasket	FP-R81275		Air intake tube to manifold gskt.

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Nozzle	FP-RE48786		Injector nozzle codes 16FA, 16FC, 16FD, 16FE, 16FF
6	Fuel Injector Seal	FP-R79605		Fuel line connection; 9.270MM X 13.600MM X 5.080MM
6	Fuel Injector Seal	FP-R92352		Upper packing
6	Fuel Injector Nut	FP-R79604		Use w/FP-RE48786 nozzle

COOLING SYSTEM

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2206; Thermostat cover code 2123; 180 Deg.

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R123354		
2	O-Ring	FP-U13639		Adapter seal; Coolant heater codes 2601, 2602; 1.475" X .118"
2	O-Ring	FP-U13639		Block coolant drain plug seal; 1.475" X .118"

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-R119874		

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE65165	*STD*	Crankshaft and Bearing code 4703
6	Plain Main Brg.	FP-RE65911	*.25MM*	Crankshaft and Bearing code 4703
1	Flanged Main Brg.	FP-RE65168	*STD*	Crankshaft and Bearing code 4703
1	Flanged Main Brg.	FP-RE65912	*.25MM*	Crankshaft and Bearing code 4703

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R72328		Elbow seal; Ventilating code 2915
4	O-Ring	FP-R56462		Oil filter adapter tube Codes 8814, 8816; R.H. high mount
1	O-Ring	FP-R61871		Oil tube from pump to block

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R121867	*STD*	
6	Liner w/Sealing Rings	FP-RE500024	*STD*	
6	Cyl. Liner Sealing Ring Kit	FP-AR65507		

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-RE65908	*STD*	Con. Rod, Bearing & Piston code 4810; w/Con. Rod marked R500335
6	Rod Pair	FP-RE65909	*.25MM*	Con. Rod, Bearing & Piston code 4810; w/Con. Rod marked R500335

7 *Marine Applications* **6068T Eng.**
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (Litre Engine), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Set	FP-RE29859		Cyl. head code 5101

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R98062	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.

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CYL. HEAD & PARTS (cont.)

QTY	VALVE (cont.)	PART NO.	SIZE	DESCRIPTION
6	Intake	**FP-R97490**	*15*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3250" Stem Dia., 5.2780" O.A.L.
6	Exhaust	**FP-R90692**	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
6	Exhaust	**FP-R97492**	*15*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3245" Stem Dia., 5.2550" O.A.L.
24	Keeper	**FP-R91889**		

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	**FP-R85687**	*STD*	
6	Int.	**FP-R98335**		.020" Dia. O/S face width; 1.8575" OD, 1.5500" ID, .2580" Depth
6	Int.	**FP-R98063**	*STD*	1.8575" OD, 1.5500" ID, .2580" Depth

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	**FP-R26125**		2.1200" Free Height

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Rotocap	**FP-RE60005**		Exh. & Int.

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	**FP-RE31617**		Exh. & Int.; From Ser. No. 300,000; Positive type
12	Valve Stem Seal	**FP-R87627**		Exh. & Int.; O-Ring type

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Nozzle	**FP-RE36939**		w/Injector marked 28484
6	Fuel Injector Nut	**FP-R79604**		w/Injector marked 28484

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Shaft	**FP-R82052**		w/Pump housing marked R80168
1	Water Pump Impeller	**FP-R47191**		w/Pump housing marked R66420, R68733
1	Water Pump Impeller	**FP-R56812**		w/Pump housing marked R80168, R90784, R104648, R120869
1	Water Pump Repair/Rebuild Kit	**FP-RE19511**		w/Pump housing marked R60601, R67741, R67748, R72644
1	Water Pump Repair/Rebuild Kit	**FP-RE70143**		From Ser. No. 100,000 to Ser. No. 499,999; w/Cast iron impeller
2	Ball Brg.	**FP-JD7686**		Front/Rear shaft bearing; Pump code 2025; w/Pump housing marked R80168, R120869; w/H/D water pump
2	Ball Brg.	**FP-JD7686**		Front/Rear shaft bearing; Pump code 2025; RePower Engs.; w/Pump housing marked R80168
2	Ball Brg.	**FP-JD10329**		Front & Rear; Fan hub shaft bearing; w/Pump housing marked R120869, R80168
1	Shaft & Bearing Assembly	**FP-JD8643**		w/Pump housing marked R90784, R104648

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	**FP-AR48675**		Thermostat code 2204; Thermostat cover code 2102 Vertical, 2104 Horizontal; Housing code 3901; 180 Deg.

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R119874**		From Ser. No. 100,000 to Ser. No. 499,999

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE45517**		

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	**FP-RE27352**	*STD*	w/Flangeless thrust brg.
6	Plain Main Brg.	**FP-RE27353**	*10*	w/Flangeless thrust brg.
6	Plain Main Brg.	**FP-RE27360**	*20*	w/Flangeless thrust brg.
6	Plain Main Brg.	**FP-RE27368**	*30*	w/Flangeless thrust brg.
1	Flanged Main Brg.	**FP-RE521350**	*STD*	
1	Flanged Main Brg.	**FP-RE526754**	*10*	
1	Flanged Main Brg.	**FP-RE527235**	*20*	
1	Flanged Main Brg.	**FP-RE527236**	*30*	

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R121867**	*STD*	
6	Liner w/Sealing Rings	**FP-RE500024**	*STD*	
6	Cylinder Kit Complete	**FP-RE53073**	*STD*	Hi-Ring
6	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		
6	Sealing Ring, Liner	**FP-R48767**		Rectangle; Top
6	Sealing Ring, Liner	**FP-R26121**		Round; Middle

(continued on next page)

7 (cont.) *Marine Applications* 6068T Eng.
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (Litre Engine), 106mm Bore

CYLINDER COMPONENTS (cont.)

QTY	LINERS (cont.)	PART NO.	SIZE	DESCRIPTION
6	Sealing Ring	FP-SLR2520		Round; Bottom

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	FP-R114082		Con. Rod, Bearing & Piston code 4810; w/Con. Rod marked R500335

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R74195		w/Con. Rod marked R54617, R56187, R116851; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	FP-AR97517	*STD*	
6	Rod Pair	FP-AR97653	*10*	
6	Rod Pair	FP-AR97654	*20*	
6	Rod Pair	FP-AR97655	*30*	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE507852	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	FP-RE66820	*STD*	1-1/8, 1-3/32, 1-.136 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-6068TIFK		w/Con. Rod marked R54617, R56187, R116851; w/Flangeless thrust brg.; Hi-Ring; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-6068TOHK		From Ser. No. 100,000 to Ser. No. 499,999; w/Con. Rod marked R54617, R56187, R116851; w/Flangeless thrust brg.; Hi-Ring; Incl. Torque-To-Yield con. rod bolts

8 *Marine Applications* 6068T PowerTech Eng.
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 2V), 106mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R123543		
1	Head Gasket	FP-R116516		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R98062	*STD*	1 groove; Chrome plated stem; 1.8350" Head Dia., .3100" Stem Dia., 5.2780" O.A.L.
6	Exhaust	FP-R90692	*STD*	1 groove; Chrome plated stem; 1.6730" Head Dia., .3095" Stem Dia., 5.2550" O.A.L.
24	Keeper	FP-R91889		

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R26125		2.1200" Free Height

QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-RE31617		Exh. & Int.; Positive type

ELECTRICAL

QTY	ELECTRICAL	PART NO.	SIZE	DESCRIPTION
1	Starter to Block Gasket	FP-R53108		3-Hole mount; Starting motor codes 3003, 3006, 3010, 3011, 3013, 3025, 3026

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
1	Air Intake Gasket	FP-R81275		Air intake tube to manifold gskt.

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Nozzle	FP-RE48786		Injector nozzle codes 16FA, 16FC, 16FD, 16FE, 16FF
6	Fuel Injector Seal	FP-R79605		Fuel line connection; Nozzle codes 1622, 1623, 1642, 1643, 1654; Nozzle marked 28484; 9.270MM X 13.600MM X 5.080MM
6	Fuel Injector Seal	FP-R92352		Upper packing
6	Fuel Injector Nut	FP-R79604		Use w/FP-RE48786 nozzle
6	Washer Type Seal	FP-R48000		Lower packing
12	Washer Type Seal	FP-R51936		Fuel line; Line codes 16FA, 16FB, 16FC, 16FD, 16FE, 16FF

COOLING SYSTEM

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2206; Thermostat cover code 2123; 180 Deg.

(continued on next page)

Marine Applications **6068T PowerTech Eng.** **8**
6.8L 413.8 (6784cc) OHV Turbo-Diesel L6 (PowerTech 2V), 106mm Bore **(cont.)**

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
2	O-Ring	**FP-U13639**		Adapter seal; Coolant heater codes 2601, 2602; 1.475" X .118"
2	O-Ring	**FP-U13639**		Block coolant drain plug seal; 1.475" X .118"
QTY	**CAM BEARINGS**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	Cam Brg.	**FP-R119874**		

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	**FP-RE65165**	*STD*	Crankshaft and Bearing codes 4702, 4703; w/Crankshaft marked R116076
6	Plain Main Brg.	**FP-RE65911**	*.25MM*	Crankshaft and Bearing codes 4702, 4703; w/Crankshaft marked R116076
1	Flanged Main Brg.	**FP-RE65168**	*STD*	Crankshaft and Bearing codes 4702, 4703; w/Crankshaft marked R116076
1	Flanged Main Brg.	**FP-RE65912**	*.25MM*	Crankshaft and Bearing codes 4702, 4703; w/Crankshaft marked R116076
QTY	**OIL PUMP**	***PART NO.***	**SIZE**	**DESCRIPTION**
1	O-Ring	**FP-R72328**		Elbow seal; Ventilating code 2915
4	O-Ring	**FP-R56462**		Oil filter adapter tube codes 8814, 8816; R.H. high mount
1	O-Ring	**FP-R61871**		Oil tube from pump to block

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R121867**	*STD*	
6	Liner w/Sealing Rings	**FP-RE500024**	*STD*	
6	Cyl. Liner Sealing Ring Kit	**FP-AR65507**		
QTY	**PISTONS**	***PART NO.***	**SIZE**	**DESCRIPTION**
6	Pin	**FP-R123177**		Con. Rod, Bearing & Piston codes 4810; 1.62" pin dia.
12	Piston Pin Retainer	**FP-R54114**		Con. Rod, Bearing & Piston codes 4810; For 1.62" pin dia.
6	Pin Bushing	**FP-R114082**		w/Con. Rod code 4810; w/Con. Rod marked R500335
QTY	**CONNECTING RODS & BRGS.**	***PART NO.***	**SIZE**	**DESCRIPTION**
12	Con. Rod Bolt	**FP-R501124**		Cyl. Liner code 4810; w/Con. Rod marked R500335
6	Rod Pair	**FP-RE65908**	*STD*	Cyl. Liner code 4810; w/Con. Rod marked R500335
6	Rod Pair	**FP-RE65909**	*.25MM*	Cyl. Liner code 4810; w/Con. Rod marked R500335
QTY	**PISTON RINGS**	***PART NO.***	**SIZE**	**DESCRIPTION**
6	Ring Set Single Cylinder	**FP-RE507852**	*STD*	Piston & Liner code 4810; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)
6	Ring Set Single Cylinder	**FP-RE66820**	*STD*	Piston & Liner code 4810; 1-1/8, 1-3/32, 1-.136 (1 cyl. set)

Marine Applications **6076TFM Eng.** **9**
7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 (Litre Engine), 115mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	**FP-RE47336**		Cyl. head code 5104
QTY	**VALVE**	***PART NO.***	**SIZE**	**DESCRIPTION**
6	Intake	**FP-R84618**	*STD*	Cyl. head code 5104; Marked R86427; 1 groove; Chrome plated stem; 2.0080" Head Dia., .3730" Stem Dia., 6.0600" O.A.L.
6	Intake	**FP-R93308**	*3*	Cyl. head code 5104; Marked R86427; 1 groove; Chrome plated stem; 2.0080" Head Dia., .3760" Stem Dia., 6.0600" O.A.L.
6	Exhaust	**FP-R84619**	*STD*	Cyl. head code 5104; Marked R86427; 1 groove; Chrome plated stem; 1.8500" Head Dia., .3720" Stem Dia., 6.1780" O.A.L.
6	Exhaust	**FP-R93311**	*3*	Cyl. head code 5104; Marked R86427; 1 groove; Chrome plated stem; 1.8500" Head Dia., .3750" Stem Dia., 6.1780" O.A.L.
12	Valve Stem Cap	**FP-T20129**		
QTY	**VALVE SEAT**	***PART NO.***	**SIZE**	**DESCRIPTION**
6	Exh.	**FP-R84976**	*STD*	Cyl. head code 5104; Marked R86427
6	Exh.	**FP-R93349**	*10*	Cyl. head code 5104; Marked R86427
6	Int.	**FP-R84977**	*STD*	Cyl. head code 5104; Marked R86427
6	Int.	**FP-R93350**	*10*	Cyl. head code 5104; Marked R86427
QTY	**VALVE SPRING**	***PART NO.***	**SIZE**	**DESCRIPTION**
12	Spring	**FP-R91822**		Cyl. head code 5104
QTY	**VALVE MISC.**	***PART NO.***	**SIZE**	**DESCRIPTION**
12	Rotocap	**FP-RE11410**		Exh. & Int.; Cyl. head code 5104
1	Oil Filler Cap Gasket	**FP-T20328**		

(continued on next page)

9 *Marine Applications* 6076TFM Eng.
(cont.) 7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 (Litre Engine), 115mm Bore

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Delco-Remy components; Code 3132; 24 Volt, 40 amp alternator
1	Ball Brg.	FP-JD9449		Front; Nippondenso components; Code 3137; 12 Volt, 70 amp alternator
1	Ball Brg.	FP-JD9449		Front; Nippondenso components; Code 3143; 12 Volt, 90 amp alternator; Poly-Vee fan drive
2	Ball Brg.	FP-JD9449		Front & Rear; Delco-Remy No. 1101345; Code 3114; 12 Volt, 78 amp alternator
2	Ball Brg.	FP-JD9449		Front & Rear; Motorola No. 70D42179T02; 24 Volt, 45 amp alternator

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Intake Manifold Gasket	FP-R130573		w/Int. manifolds R108608, R127872, R132293

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R53901		Control valve seal to housing; Pump housing codes 1604, 1652, 1683; Filter & line codes 1601, 1604, 1606, 1611, 1622, 1623, 1637, 1644, 1650, 1652, 1656, 1667, 1687, 3512, 3513, 3521, 3528
1	Washer	FP-R53901		Control valve seal to housing; Pump housing codes 1610, 1640; Filter & line codes 1611, 1612, 1613, 1616, 1637, 1650, 1654, 1656, 1667, 1676, 1678, 1686; To Ser. No. 568,899
1	Washer	FP-R53901		Control valve seal to housing; Pump housing codes 1650, 1655, 3511; Filter & line codes 1611, 1612, 1613, 1616, 1637, 1650, 1654, 1656, 1667, 1676, 1678, 1686
1	Washer	FP-R53899		Control valve to pump housing seal; Fuel filter codes 3512, 3521; To Ser. No. 102,986
1	Washer	FP-R53899		Control valve to pump housing seal; Pump housing codes 1610, 1616, 1626, 1640, 1641, 1650, 1654; Fuel filter codes 3502, 3503, 3511, 3513
6	Washer	FP-R84472		Injector nozzle; Nozzle codes 1604, 1610, 1611, 1615, 1622, 1623, 1625, 1626, 1640, 1641, 1644, 1652, 1655, 1656, 1657, 1680, 1683, 1688, 1689; To Ser. No. 568,899; .290" X .715" X .079"
6	Washer	FP-R84472		Injector nozzle; Nozzle codes 1610, 1612, 1613, 1654, 1676; From Ser. No. 500,000; .290" X .715" X .079"
6	Fuel Injector Nut	FP-R79604		Inj. pump; Line codes 1601, 1604, 1623, 1637, 1644, 1652, 1667, 1680, 1683, 1686, 1688
13	Washer Type Seal	FP-R51936		Leak-off & return line seals; Nozzle codes 1618, 1619, 1643, 1668

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Shaft	FP-R70965		Water pump codes 2014, 2032; w/Pump marked R83561; Gear driven pump
1	Water Pump Impeller	FP-R71225		w/Pump housing marked R85677
1	Water Pump Repair/Rebuild Kit	FP-RE69847		w/Pump housing marked R83561; Gear driven pump
2	Ball Brg.	FP-JD10329		Fan hub shaft bearing
1	Ball Brg.	FP-JD10363		Gear driven front bearing; Water pump code 2037; w/Pump housing marked R85677
1	Ball Brg.	FP-JD10362		Gear driven rear bearing; Water pump code 2037; w/Pump housing marked R85677
1	Oil Seal	FP-RE39134		Water pump code 2037; w/Pump housing marked R85677
2	O-Ring	FP-R71732		Pump by-pass; Pump codes 8002, 8003
1	O-Ring	FP-R71596		Pump cover; Water pump code 2037; w/Pump housing marked R83561
1	Water Pump Hub	FP-JD10058		w/Fan Hub bearing codes 2317, 2318, 2320, 2324, 2327, 2328, 2329, 2330, 2331, 2332, 2334, 2335, 2336, 2338, 2339, 2340
1	Water Pump Filter	FP-R98527		w/Pump housing marked R85677

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-R47153		Thermostat; Water manifold codes 3904, 3912

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-R49377		w/Alum. pan; Oil pan code 1920
1	Oil Pan Gasket Set	FP-PG400PS		w/Cast iron oil pan

(continued on next page)

Marine Applications **6076TFM Eng.** **9**
7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 (Litre Engine), 115mm Bore **(cont.)**

ENGINE BLOCK & PARTS (cont.)

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	**FP-R87561**		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket Set	**FP-6076A**		To Ser. No. 100,770; w/housing No. R50398
1	Aftercooler Gasket Set	**FP-6076ADP**		Use w/housing Nos. R90995, R93918, R110232
2	Aftercooler Gasket	**FP-R88993**		From Ser. No. 100,177
2	Aftercooler Gasket	**FP-R97347**		6076A Engs.
1	Oil Cooler	**FP-AT25038**		
1	O-Ring	**FP-R52811**		Intercooler inlet & outlet tube seals; Int. manifold code 1726; To Ser. No. 100,770
4	O-Ring	**FP-R47153**		Cooler tube
2	O-Ring	**FP-R47153**		Oil filter tube; Oil filter code 5931
1	Oil Cooler Bypass Gasket	**FP-R65055**		
1	Oil Cooler Cover Gasket	**FP-R128558**		From Ser. No. 500,000
1	Oil Cooler Cover Gasket	**FP-R50419**		To Ser. No. 499,999
1	Oil Cooler Housing Cover Gskt	**FP-R128557**		From Ser. No. 500,000

CRANKSHAFT/OIL PUMP

QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	**FP-RE53422**		Gears incl.; Short snout 3.000"
1	Crankshaft	**FP-AR96189**		Gears not incl.
1	Oil Seal Kit	**FP-SK49025**		Incl. front & rear seals

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	**FP-AR49025**		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	**FP-RE22764**		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	**FP-MBK400L4**	*STD*	w/5 main brgs.
1	Main Set	**FP-MBK400L410**	*10*	w/5 main brgs.
1	Main Set	**FP-MBK400L420**	*20*	w/5 main brgs.
1	Main Set	**FP-MBK400L6**	*STD*	w/7 main brgs.
1	Main Set	**FP-MBK400L610**	*10*	w/7 main brgs.
1	Main Set	**FP-MBK400L620**	*20*	w/7 main brgs.
1	Main Set	**FP-MBK400L630**	*30*	w/7 main brgs.
5	Plain Main Brg.	**FP-AR74814**	*STD*	
5	Plain Main Brg.	**FP-AR74816**	*10*	
5	Plain Main Brg.	**FP-AR74817**	*20*	
5	Plain Main Brg.	**FP-AR74818**	*30*	
1	Flanged Main Brg.	**FP-AR77748**	*STD*	
1	Flanged Main Brg.	**FP-AR77750**	*10*	
1	Flanged Main Brg.	**FP-AR77751**	*20*	
1	Flanged Main Brg.	**FP-AR77752**	*30*	
1	Thrust Washer Set	**FP-AR77747**	*STD*	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
3	O-Ring	**FP-R71732**		Pump by-pass tubes; Pump code 2702
1	O-Ring	**FP-R50405**		Intake coupling; Large end; Int. manifold codes 1706, 1709, 1710, 1726, 1731, 1737, 1738
1	Rect. or Square Seal	**FP-R43660**		Filter to housing; Filter & body code 5919; w/housing marked R120412
1	Oil Pump Intake Elbow Gasket	**FP-R71312**		w/Rear deep sump; Oil pump code 5003; Oil pan code 1906
1	Oil Filter to Block Gasket	**FP-R43774**		

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	**FP-R87858**		
6	Liner w/Sealing Rings	**FP-R87858WS**		
6	Cylinder Kit Complete	**FP-RE60294**	*STD*	w/Con. Rod marked R71074; From Ser. No. 193,861
6	Cylinder Kit Complete	**FP-RE48739**	*STD*	w/Con. Rod marked R71074; To Ser. No. 193,860
6	Cyl. Liner Sealing Ring Kit	**FP-AR98850**		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	**FP-RE57512**	*STD*	From Ser. No. 500,000
6	Piston Body w/o Pin	**FP-RE50868**	*STD*	To Ser. No. 499,999
6	Piston Kit w/Pin & Retainers	**FP-RE57512WP**	*STD*	From Ser. No. 500,000
6	Piston Kit w/Pin & Retainers	**FP-RE50868WP**	*STD*	To Ser. No. 499,999
6	Pin	**FP-R57771**		Piston, Con. Rod, Cyl. liner codes 4802, 4803
12	Piston Pin Retainer	**FP-E1343FN**		

(continued on next page)

9 (cont.) *Marine Applications* **6076TFM Eng.**
7.6L 465.9 (7638cc) OHV Turbo-Diesel L6 (Litre Engine), 115mm Bore

CYLINDER COMPONENTS (cont.)

QTY	PISTONS (cont.)	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	FP-R74008		Piston, Con. Rod, Cyl. liner codes 4802, 4803; w/Con. Rod marked R71074; From Ser. No. 253,373; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R66452		Piston, Con. Rod, Cyl. liner codes 4802, 4803; w/Con. Rod marked R71074; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	FP-AR73277	*STD*	Piston, Con. Rod, Cyl. liner codes 4802, 4803; w/Con. Rod marked R71074
6	Rod Pair	FP-AR73279	*10*	Piston, Con. Rod, Cyl. liner codes 4802, 4803; w/Con. Rod marked R71074
6	Rod Pair	FP-AR73280	*20*	Piston, Con. Rod, Cyl. liner codes 4802, 4803; w/Con. Rod marked R71074
6	Rod Pair	FP-AR73281	*30*	Piston, Con. Rod, Cyl. liner codes 4802, 4803; w/Con. Rod marked R71074

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE57517	*STD*	From Ser. No. 193,861
6	Ring Set Single Cylinder	FP-RE48380	*STD*	To Ser. No. 193,860; 2-5/32, 1-3/16 (1 cyl. set)

KITS

QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-6076LIFK		w/Con. Rod marked R71074; From Ser. No. 193,861; Incl. Torque-To-Yield con. rod bolts
1	In-Frame Overhaul Kit	FP-6076EIFK		w/Con. Rod marked R71074; To Ser. No. 193,860; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-6076LOHK		w/Con. Rod marked R71074; From Ser. No. 193,861; Incl. Torque-To-Yield con. rod bolts
1	Complete Overhaul Kit	FP-6076EOHK		w/Con. Rod marked R71074; To Ser. No. 193,860; Incl. Torque-To-Yield con. rod bolts

10 *Marine Applications* **6081H PowerTech Eng. (2-Valve Cyl. Head)**
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V IC), 116mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R49866		Rocker cover codes 1102, 1105, 2912
1	Head Gasket	FP-RE55475		
1	Head Set	FP-RE57186		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R84618	*STD*	1 groove; Chrome plated stem; 2.0080" Head Dia., .3730" Stem Dia., 6.0600" O.A.L.
6	Intake	FP-R93308	*3*	1 groove; Chrome plated stem; 2.0080" Head Dia., .3760" Stem Dia., 6.0600" O.A.L.
6	Exhaust	FP-R84619	*STD*	1 groove; Chrome plated stem; 1.8500" Head Dia., .3720" Stem Dia., 6.1780" O.A.L.
6	Exhaust	FP-R93311	*3*	1 groove; Chrome plated stem; 1.8500" Head Dia., .3750" Stem Dia., 6.1780" O.A.L.
12	Valve Stem Cap	FP-T20129		Exh. & Int.
24	Keeper	FP-T20077		Exh. & Int.; 1 groove; Square cut key groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R119132	*STD*	
6	Exh.	FP-R93349	*10*	
6	Int.	FP-R121193	*STD*	
6	Int.	FP-R93350	*10*	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R91822		Exh. & Int.

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover codes 1105, 2912

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Code 3143; 12 Volt, 90 amp alternator; Poly-Vee fan drive

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	FP-R83020		Codes 2802, 3830; w/two holes; Two Exh. holes
2	Exhaust Manifold Gasket	FP-R83021		Codes 2802, 3830; One Exh. hole

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Marine Applications **6081H PowerTech Eng. (2-Valve Cyl. Head)** **10**
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V IC), 116mm Bore **(cont.)**

INT & EXH MANIFOLDS (cont.)

QTY	INT. & EXH. MANIFOLDS (cont.)	PART NO.	SIZE	DESCRIPTION
3	Intake Manifold Gasket	FP-R130573		w/Int. manifolds R127427, R131652

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	FP-R26058		Housing to block gskt.

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R53899		Control valve to pump housing seal; Inj. pump housing connector codes 1616, 1621, 1632, 1633, 1634, 1635, 1636, 1641, 1655, 1657, 1658, 1659
2	Washer	FP-R53901		Fuel inj. pump connector seal; Filter & line codes 1603, 1604, 1605, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1615, 1617, 1618, 1619, 1620, 1622, 1623, 1624, 1640, 1656, 1676; w/Bosch pump
6	Washer	FP-R84472		Injector nozzle; Nozzle codes 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1613, 1615, 1620, 1621, 1622, 1624, 1630, 1632, 1633, 1635, 1639, 1642, 1648, 1651, 1655, 1657, 1659, 1661, 1662, 1663, 1676; .290" X .715" X .079"
6	Fuel Injector Nut	FP-R79604		Injector line codes 1601, 1602
13	Washer Type Seal	FP-R51936		Fuel line; Line codes 1601, 1602, 1603, 1604, 1605, 1606, 1608, 1610, 1611, 1612, 1616, 1617, 1618, 1619, 1632, 1634, 1636, 1640, 1641, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1656, 1661, 1662, 1663, 1667

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		w/Turbo oil line codes 6501, 6503, 6504, 6505, 6506, 6507, 6508, 6510, 6511, 6512, 6513, 6529, 6530, 6531
1	Turbocharger Mounting Gasket	FP-R89879		
1	O-Ring	FP-R86743		Outer coupling
1	Turbo Exhaust Int. Cover Gskt	FP-R92097		Turbo code 6514

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
2	Ball Brg.	FP-JD10329		Fan hub shaft bearing
1	Water Pump Gasket	FP-R119383		w/Pump housing marked R119795; w/15 tooth gear; High flow
1	Water Pump Gasket	FP-R119383		w/Pump housing marked R119795; w/16 tooth gear; Low flow
1	Oil Seal	FP-RE39134		Water pump codes 2001, 2004; w/Pump housing marked R119795
1	Water Pump Hub	FP-JD10058		w/Fan Hub bearing codes 2305, 2306, 2335, 2336, 2337, 2338, 2339
1	Water Pump Filter	FP-R98527		w/Pump housing marked R119795

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2204; 180 Deg.
1	Thermostat Gasket	FP-R124211		Thermostat housing to cyl. head
1	Thermostat Cover Gasket	FP-R46479		Thermostat cover codes 2102, 2114; Two hole
1	Therm. Hsg. - Water Mfld. Gsk	FP-R86062		Housing to cyl. head

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	FP-R88397		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	FP-R125670		Air compressor to timing cover; Midland or Holset
1	Front Cover Gasket	FP-R119384		Timing gear cover
1	Oil Pan Gasket	FP-R49377		w/Alum. pan; Oil pan codes 1906, 1909, 1914, 1916
1	Oil Pan Gasket	FP-R71918		w/Cast Iron pan
1	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-RE57187		From Ser. No. 500,000; Crankshaft seals not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Cam Brg.	FP-R87561		

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket	FP-R88993		w/Int. manifold codes 1703, 1738
2	Aftercooler Gasket	FP-R88993		w/Int. manifold codes 1705, 1737
1	Oil Cooler	FP-AR55394		
4	O-Ring	FP-R47153		Cooler tube; Cooler code 5901
4	O-Ring	FP-R47153		Oil filter tube; Filter code 5901

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10 (cont.) *Marine Applications* 6081H PowerTech Eng. (2-Valve Cyl. Head)
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V IC), 116mm Bore

ENGINE BLOCK & PARTS (cont.)

QTY	OIL COOLERS & FILTERS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler Housing Gasket	FP-AR58952		
2	Oil Cooler Adapter Gasket Set	FP-R50424		

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-AR49025		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE22764		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE529319	STD	
1	Flanged Main Brg.	FP-RE529320	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-U17409		Oil cooler relief valve plug seal; Filter & housing code 5901
1	Oil Pump Intake Gasket	FP-R100569		Oil pump pickup codes 1906, 1909, 1916
1	Oil Filter Base Gasket	FP-R119847		Housing to block gskt.

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R520212	STD	
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R57771		
12	Piston Pin Retainer	FP-E1343FN		
6	Pin Bushing	FP-R74008		w/Con. Rod marked R11634, R501034; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R66452		To Ser. No. 086,535; w/Con. Rod marked R116340; Torque-To-Yield bolt; Replacement recommended
6	Rod Bearing Half Upper/Lower	FP-R525767	STD	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE503528	STD	

11 *Marine Applications* 6081A PowerTech Eng. (2-Valve Cyl. Head)
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V AC), 116mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R49866		Rocker cover codes 1102, 1105, 2912
1	Head Gasket	FP-RE55475		
1	Head Set	FP-RE57186		

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R84618	STD	1 groove; Chrome plated stem; 2.0080" Head Dia., .3730" Stem Dia., 6.0600" O.A.L.
6	Intake	FP-R93308	3	1 groove; Chrome plated stem; 2.0080" Head Dia., .3760" Stem Dia., 6.0600" O.A.L.
6	Exhaust	FP-R84619	STD	1 groove; Chrome plated stem; 1.8500" Head Dia., .3720" Stem Dia., 6.1780" O.A.L.
6	Exhaust	FP-R93311	3	1 groove; Chrome plated stem; 1.8500" Head Dia., .3750" Stem Dia., 6.1780" O.A.L.
12	Valve Stem Cap	FP-T20129		Exh. & Int.
24	Keeper	FP-T20077		Exh. & Int.; 1 groove; Square cut key groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R119132	STD	
6	Exh.	FP-R93349	10	
6	Int.	FP-R121193	STD	
6	Int.	FP-R93350	10	

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R91822		Exh. & Int.

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	FP-T20328		Rocker arm cover codes 1105, 2912

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Marine Applications **6081A PowerTech Eng. (2-Valve Cyl. Head)** **11**
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V AC), 116mm Bore **(cont.)**

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Code 3143; 12 Volt, 90 amp alternator; Poly-Vee fan drive

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
2	Exhaust Manifold Gasket	FP-R83020		Codes 2802, 3830; w/two holes; Two Exh. holes
2	Exhaust Manifold Gasket	FP-R83021		Codes 2802, 3830; One Exh. hole
3	Intake Manifold Gasket	FP-R130573		w/Int. manifolds R127427, R131652

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	FP-R26058		Housing to block gskt.

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R53899		Control valve to pump housing seal; Inj. pump housing connector codes 1616, 1621, 1632, 1633, 1634, 1635, 1636, 1641, 1655, 1657, 1658, 1659
2	Washer	FP-R53901		Fuel inj. pump connector seal; Filter & line codes 1603, 1604, 1605, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1615, 1617, 1618, 1619, 1620, 1622, 1623, 1624, 1640, 1656, 1676; w/Bosch pump
6	Washer	FP-R84472		Injector nozzle; Nozzle codes 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1613, 1615, 1620, 1621, 1622, 1624, 1630, 1632, 1633, 1635, 1639, 1642, 1648, 1651, 1655, 1657, 1659, 1661, 1662, 1663, 1676; .290" X .715" X .079"
6	Fuel Injector Nut	FP-R79604		Injector line codes 1601, 1602
13	Washer Type Seal	FP-R51936		Fuel line; Line codes 1601, 1602, 1603, 1604, 1605, 1606, 1608, 1610, 1611, 1612, 1616, 1617, 1618, 1619, 1632, 1634, 1636, 1640, 1641, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1656, 1661, 1662, 1663, 1667

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		w/Turbo oil line codes 6501, 6503, 6504, 6505, 6506, 6507, 6508, 6510, 6511, 6512, 6513, 6529, 6530, 6531
1	Turbocharger Mounting Gasket	FP-R89879		
1	O-Ring	FP-R86743		Outer coupling
1	Turbo Exhaust Int. Cover Gskt	FP-R92097		Turbo code 6514

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
2	Ball Brg.	FP-JD10329		Fan hub shaft bearing
1	Water Pump Gasket	FP-R119383		w/Pump housing marked R119795; w/15 tooth gear; High flow
1	Water Pump Gasket	FP-R119383		w/Pump housing marked R119795; w/16 tooth gear; Low flow
1	Oil Seal	FP-RE39134		Water pump codes 2001, 2004; w/Pump housing marked R119795
1	Water Pump Hub	FP-JD10058		w/Fan Hub bearing codes 2305, 2306, 2335, 2336, 2337, 2338, 2339
1	Water Pump Filter	FP-R98527		w/Pump housing marked R119795

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2204; 180 Deg.
1	Thermostat Gasket	FP-R124211		Thermostat housing to cyl. head
1	Thermostat Cover Gasket	FP-R46479		Thermostat cover codes 2102, 2114; Two hole
1	Therm. Hsg. - Water Mfld. Gsk	FP-R86062		Housing to cyl. head

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	FP-R88397		

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	FP-R125670		Air compressor to timing cover; Midland or Holset
1	Front Cover Gasket	FP-R119384		Timing gear cover
1	Oil Pan Gasket	FP-R49377		w/Alum. pan; Oil pan codes 1906, 1909, 1914, 1916
1	Oil Pan Gasket	FP-R71918		w/Cast Iron pan
1	O-Ring	FP-U13639		Block coolant drain plug seal; Coolant heater codes 2601, 2602; 1.475" X .118"

QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-RE57187		From Ser. No. 500,000; Crankshaft seals not incl.

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Cam Brg.	FP-R87561		

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11 (cont.) *Marine Applications* 6081A PowerTech Eng. (2-Valve Cyl. Head)
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V AC), 116mm Bore

ENGINE BLOCK & PARTS (cont.)

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Aftercooler Gasket	FP-R88993		w/Int. manifold codes 1703, 1738
2	Aftercooler Gasket	FP-R88993		w/Int. manifold codes 1705, 1737
1	Oil Cooler	FP-AR55394		
4	O-Ring	FP-R47153		Cooler tube; Cooler code 5901
4	O-Ring	FP-R47153		Oil filter tube; Filter code 5901
1	Oil Cooler Housing Gasket	FP-AR58952		
2	Oil Cooler Adapter Gasket Set	FP-R50424		

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-AR49025		

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-RE22764		PTFE

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE529319	STD	
1	Flanged Main Brg.	FP-RE529320	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
2	O-Ring	FP-U17409		Oil cooler relief valve plug seal; Filter & housing code 5901
1	Oil Pump Intake Gasket	FP-R100569		Oil pump pickup codes 1906, 1909, 1916
1	Oil Filter Base Gasket	FP-R119847		Housing to block gskt.

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R520212	STD	
6	Cylinder Kit Complete	FP-RE508156 *	STD	For Low Compression Engines
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-RE516291 *	STD	For Low Compression Engines
6	Pin	FP-R57771		
12	Piston Pin Retainer	FP-E1343FN		
6	Pin Bushing	FP-R74008		w/Con. Rod marked R11634, R501034; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R501035		w/Con. Rod marked R526592, R535555
12	Con. Rod Bolt	FP-R66452		To Ser. No. 086,535; w/Con. Rod marked R116340; Torque-To-Yield bolt; Replacement recommended
6	Rod Bearing Half Upper/Lower	FP-R525767	STD	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE503528	STD	

12 *Marine Applications* 6081T PowerTech Eng.
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V), 116mm Bore

CYL. HEAD & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Valve Cover Gasket	FP-R49866		
1	Head Gasket	FP-RE55475		Cyl. head code 5109

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-R84618	STD	Cyl. head code 5109; 1 groove; Chrome plated stem; 2.0080" Head Dia., .3730" Stem Dia., 6.0600" O.A.L.
6	Intake	FP-R93308	3	Cyl. head code 5109; 1 groove; Chrome plated stem; 2.0080" Head Dia., .3760" Stem Dia., 6.0600" O.A.L.
6	Exhaust	FP-R84619	STD	Cyl. head code 5109; 1 groove; Chrome plated stem; 1.8500" Head Dia., .3720" Stem Dia., 6.1780" O.A.L.
6	Exhaust	FP-R93311	3	Cyl. head code 5109; 1 groove; Chrome plated stem; 1.8500" Head Dia., .3750" Stem Dia., 6.1780" O.A.L.
12	Valve Stem Cap	FP-T20129		Cyl. head code 5109
24	Keeper	FP-T20077		Cyl. head code 5109; 1 groove; Square cut key groove; Hardened

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
6	Exh.	FP-R119132	STD	Cyl. head code 5109
6	Exh.	FP-R93349	10	Cyl. head code 5109
6	Int.	FP-R121193	STD	Cyl. head code 5109
6	Int.	FP-R93350	10	Cyl. head code 5109

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* New Item — Check For Availability

Marine Applications **6081T PowerTech Eng.** **12**
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V), 116mm Bore **(cont.)**

CYL. HEAD & PARTS (cont.)

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-R91822		Cyl. head code 5109

QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap Gasket	FP-T20328		

ELECTRICAL

QTY	ALTERNATOR	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD9449		Front; Code 3143; 12 Volt, 90 amp alternator; Poly-Vee fan drive

INT & EXH MANIFOLDS

QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Intake Manifold Gasket	FP-R130573		Int. manifold to head gskt.; Code 1701

CAMSHAFT GROUP

QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Front Cover Gasket	FP-R26058		Flywheel housing inspection cover gskt.

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	FP-R82007		Cyl. block code 4601

FUEL SYSTEM & PARTS

QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
1	Washer	FP-R53899		Fuel temp. sensor seal; Codes 1601, 1602
6	Washer	FP-R84472		Injector nozzle; Injector nozzle washer; Nozzle codes 1601, 1602; .290" X .715" X .079"
6	Fuel Injector Nut	FP-R79604		Fuel return connector; Codes 1601, 1602
13	Washer Type Seal	FP-R51936		Fuel supply line; Codes 1601, 1602

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		Oil cooler & filter code 5901; Oil return flange gskt.
1	Sealing Ring	FP-R100911		Code 1701; Aftercooler inlet/outlet gskt.

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump Gasket	FP-R119383		Water pump code 2002; Pump marked R119795
1	Oil Seal	FP-RE39134		Water pump code 2002; Pump marked R119795; Pump bearing seal
2	O-Ring	FP-U13639		Coolant heater adapter seal; Codes 2601, 2602, 2605; Cyl. block code 4602; 1.475" X .118"
2	O-Ring	FP-R72328		Thermostat housing code 3901; Tube seal
1	O-Ring	FP-R71596		Water pump code 2002; w/Pump housing marked R119795
1	Water Pump Filter	FP-R98527		Water pump code 2002; Pump marked R119795

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
2	Thermostat	FP-AR48675		Thermostat code 2204; 180 Deg.
1	Therm. Hsg. - Water Mfld. Gsk	FP-R86062		Thermostat housing code 3901; Housing to head gskt.

QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
2	Water Manifold Mounting Gskt.	FP-R88397		Thermostat housing code 3901

ENGINE BLOCK & PARTS

QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Front Cover Gasket	FP-R125670		Air compressor codes 7802, 7804, 7805; Compressor to front cover gskt.
1	Front Cover Gasket	FP-R119384		Front plate & timing gear cover code 7701
1	O-Ring	FP-R71732		Seawater & tube code 8001; Tube seal

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
4	Cam Brg.	FP-R87561		Cyl. block code 4602

QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
2	Aftercooler Gasket	FP-R88993		
1	Oil Cooler	FP-AR55394		Oil cooler & filter code 5901
1	O-Ring	FP-B2762R		Cyl. block code 4601; Aux. drive plug seal
2	O-Ring	FP-U17409		Oil cooler & filter code 5901; Check valve plug seals
8	O-Ring	FP-R47153		Oil cooler & filter code 5901; Tube seals
1	Rect. or Square Seal	FP-R43660		Oil cooler & filter code 5901; Oil filter seal
1	Oil Cooler Housing Gasket	FP-AR58952		Oil cooler & filter code 5901
2	Oil Cooler Adapter Gasket Set	FP-R50424		Oil cooler & filter code 5901

CRANKSHAFT/OIL PUMP

QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-RE68318		Water pump code 2102; Pump marked R119795

(continued on next page)

12 *Marine Applications* **6081T PowerTech Eng.** (cont.)
8.1L 495.9 (8129cc) OHV Turbo-Diesel L6 (PowerTech 2V), 116mm Bore

CRANKSHAFT/OIL PUMP (cont.)

QTY	SEALS - FRONT CRANK (cont.)	PART NO.	SIZE	DESCRIPTION
1	Oil Seal Kit	FP-AR49025		Front plate & timing gear cover code 7701

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE529319	STD	
1	Flanged Main Brg.	FP-RE529320	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R71732		Oil pump code 5002; Tube to block seal
1	O-Ring	FP-R71732		Oil pump code 5002; Tube to pump seal
1	Oil Pump Intake Gasket	FP-R100569		Drain plug seal codes 1920, 1921, 1922, 1923, 1924
1	Oil Pump Intake Gasket	FP-R100569		Oil pump code 5002
1	Oil Filter Base Gasket	FP-R119847		Oil cooler & filter code 5901

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Ring	FP-R520212	STD	
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		Piston, Con. Rod, Cyl. liner codes 4802, 4803

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R57771		Piston, Con. Rod, Cyl. liner code 4802
12	Piston Pin Retainer	FP-E1343FN		Piston, Con. Rod, Cyl. liner codes 4802
6	Pin Bushing	FP-R74008		Piston, Con. Rod, Cyl. liner code 4802; 1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R66452		To Ser. No. 086,535; w/Con. Rod marked R116340; Torque-To-Yield bolt; Replacement recommended
6	Rod Bearing Half Upper/Lower	FP-R525767	STD	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE57517	STD	Piston, Con. Rod, Cyl. liner code 4802

13 *Marine Applications*
9.0L 549 (9000cc) OHV Turbo-Diesel L6 (PowerTech 4V IC), 118.4mm Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	FP-R520223	STD	1 groove; Chrome plated stem; 1.5748" Head Dia., .3142" Stem Dia., 6.4154" O.A.L.
12	Exhaust	FP-R520224	STD	1 groove; Inconel X-751; Chrome plated stem; 1.5748" Head Dia., .3142" Stem Dia., 6.4201" O.A.L.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
24	Exh. & Int.	FP-R527285 *	STD	

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
24	Guide	FP-R527286 *		

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
24	Spring	FP-R504235		

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	FP-R82007		

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Cam Brg.	FP-R527877 *	STD	

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE529319	STD	
1	Flanged Main Brg.	FP-RE529320	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump Intake Gasket	FP-R100569		

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R517073 *	STD	

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* New Item — Check For Availability

Marine Applications **13 (cont.)**
9.0L 549 (9000cc) OHV Turbo-Diesel L6 (PowerTech 4V IC), 118.4mm Bore

CYLINDER COMPONENTS (cont.)

QTY	PISTONS (cont.)	PART NO.	SIZE	DESCRIPTION
6	Pin Bushing	FP-R74008		1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R501035		Fractured split rod
6	Rod Pair	FP-RE529318 *	STD	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE531077 *	STD	

Marine Applications **6090AFM75 Eng.** **14**
9.0L 549 (9000cc) OHV Turbo-Diesel L6 (PowerTech 4V AC), 118.4mm Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	FP-R520223	STD	1 groove; Chrome plated stem; 1.5748" Head Dia., .3142" Stem Dia., 6.4154" O.A.L.
12	Exhaust	FP-R520224	STD	1 groove; Inconel X-751; Chrome plated stem; 1.5748" Head Dia., .3142" Stem Dia., 6.4201" O.A.L.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
24	Exh. & Int.	FP-R527285 *	STD	

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
24	Guide	FP-R527286 *		

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
24	Spring	FP-R504235		

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	FP-R82007		

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Cam Brg.	FP-R527877 *	STD	

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE529319	STD	
1	Flanged Main Brg.	FP-RE529320	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump Intake Gasket	FP-R100569		

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R517073 *	STD	
6	Pin Bushing	FP-R74008		1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R501035		Fractured split rod
6	Rod Pair	FP-RE529318 *	STD	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE531077 *	STD	

Marine Applications **15**
9.0L 549 (9000cc) OHV Turbo-Diesel L6 (PowerTech 4V), 118.4mm Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	FP-R520223	STD	1 groove; Chrome plated stem; 1.5748" Head Dia., .3142" Stem Dia., 6.4154" O.A.L.
12	Exhaust	FP-R520224	STD	1 groove; Inconel X-751; Chrome plated stem; 1.5748" Head Dia., .3142" Stem Dia., 6.4201" O.A.L.

QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
24	Exh. & Int.	FP-R527285 *	STD	

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15 *Marine Applications* (cont.) 9.0L 549 (9000cc) OHV Turbo-Diesel L6 (PowerTech 4V), 118.4mm Bore

CYL. HEAD & PARTS (cont.)

QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
24	Guide	FP-R527286 *		

QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
24	Spring	FP-R504235		

CAMSHAFT GROUP

QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft Plug	FP-R82007		

ENGINE BLOCK & PARTS

QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Cam Brg.	FP-R527877 *	STD	

CRANKSHAFT/OIL PUMP

QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
6	Plain Main Brg.	FP-RE529319	STD	
1	Flanged Main Brg.	FP-RE529320	STD	

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump Intake Gasket	FP-R100569		

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	FP-AR98850		

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	FP-R517073 *	STD	
6	Pin Bushing	FP-R74008		1.877" ID, 2.0622 OD, 1.8728" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-R501035		Fractured split rod
6	Rod Pair	FP-RE529318 *	STD	

QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-RE531077 *	STD	

16 *Marine Applications* **6125TFM Eng.** 12.5L 764.6 (12534cc) OHV Turbo-Diesel L6 (PowerTech), 127mm Bore

CYL. HEAD & PARTS

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
48	Keeper	FP-R91889		Cyl. head & camshaft codes 5102, 5103

CAMSHAFT GROUP

QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Idler Sprocket/Gear Bushing	FP-R533789		

FUEL SYSTEM & PARTS

QTY	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Oil Drain Gasket	FP-R105346		Turbocharger, line & pipe code 6502
1	Turbocharger Mounting Gasket	FP-R49697		Turbocharger, lines & pipe code 6502
1	O-Ring	FP-R72328		Turbocharger, lines & pipe code 6502; Return oil tube adapter seal

COOLING SYSTEM

QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Ball Brg.	FP-JD10362		Front; Water Pump bearing
1	Ball Brg.	FP-JD10363		Rear; Water Pump bearing
1	Oil Seal	FP-RE39134		Rear water pump seal

QTY	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-RE33705		Upper; Thermostat code 2207; 180 Deg.

CRANKSHAFT/OIL PUMP

QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Crankshaft Rear Housing Gskt.	FP-R35043		

QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-R56192		Aux. drive adapter, lines and cover code 5202; Flange-to-flange seal
1	O-Ring	FP-R72328		Elbow seal
3	O-Ring	FP-U17409		Oil cooler relief valve plug seal; Filter & housing code 5901

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* New Item — Check For Availability

Marine Applications **6125TFM Eng.** **16**
12.5L 764.6 (12534cc) OHV Turbo-Diesel L6 (PowerTech), 127mm Bore **(cont.)**

CYLINDER COMPONENTS

QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Cyl. Liner Sealing Ring Kit	**FP-AR72351**		Piston, Con. Rod, Cyl. liner code 4801

QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Pin	**FP-R64451**		Piston, Con. Rod, Cyl. liner code 4801
12	Piston Pin Retainer	**FP-N51168**		Piston, Con. Rod, Cyl. liner code 4801
6	Pin Bushing	**FP-R69045**		Piston, Con. Rod, Cyl. liner code 4801; w/Con. Rod marked R121174, R501566; w/1.999" ID, w/2.187" OD, 2.0512" O.A.L.

QTY	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	**FP-R66453**		Piston, Con. Rod, Cyl. liner code 4801; To Ser. No. 010513; Rod marked R121174; Torque-To-Yield bolt; Replacement recommended
6	Rod Pair	**FP-RE530787 ***	*STD*	

Engine Kit Bill of Material

Qty.	Part No.	Description
	FP-IFKN14AR	
(6)	FP-3803740	Cylinder Kit Complete
(6)	FP-3803742	Cylinder Kit Complete
(6)	FP-3804636	Cylinder Kit Complete
(12)	FP-3055145	Rod Bearing Half Upper/Lower
(12)	FP-3055146	Rod Bearing Half Upper/Lower
(12)	FP-3055147	Rod Bearing Half Upper/Lower
(12)	FP-3055148	Rod Bearing Half Upper/Lower
(12)	FP-3055149	Rod Bearing Half Upper/Lower
(1)	FP-3801260	Main Bearing Set
(1)	FP-3801261	Main Bearing Set
(1)	FP-3801262	Main Bearing Set
(1)	FP-3801263	Main Bearing Set
(1)	FP-3801264	Main Bearing Set
(1)	FP-4089371S	In-Frame Gasket Set
	FP-IFKPT4045T	
(1)	FP-R97342	Oil Pan Gasket
(4)	FP-RE507850	Cylinder Kit Complete
(4)	FP-RE507920	Cylinder Kit Complete
(4)	FP-RE65966	Cylinder Kit Complete
(4)	FP-RE65908	Connecting Rod Bearing Pair
(4)	FP-RE65909	Connecting Rod Bearing Pair
(1)	FP-RE65168	Main Bearing, Flanged
(1)	FP-RE65912	Main Bearing, Flanged
(4)	FP-RE65165	Main Bearing, Plain
(4)	FP-RE65911	Main Bearing, Plain
(1)	FP-RE66082	Head Gasket Set
	FP-IFKPT6068	
(1)	FP-R123354	Oil Pan Gasket
(6)	FP-RE507850	Cylinder Kit Complete
(6)	FP-RE507920	Cylinder Kit Complete
(6)	FP-RE65966	Cylinder Kit Complete
(12)	FP-R114083	Connecting Rod Bolt
(12)	FP-R501124	Connecting Rod Bolt
(6)	FP-RE65908	Connecting Rod Bearing Pair
(6)	FP-RE65909	Connecting Rod Bearing Pair
(1)	FP-RE65168	Main Bearing, Flanged
(1)	FP-RE65912	Main Bearing, Flanged
(6)	FP-RE65165	Main Bearing, Plain
(6)	FP-RE65911	Main Bearing, Plain
(1)	FP-RE66085	In-Frame Gasket Set
	FP-IFKPT6081	
(1)	FP-R71918	Oil Pan Gasket
(6)	FP-R74008	Piston Pin Bushing
(6)	FP-RE508156	Cylinder Kit Complete
(6)	FP-RE64509	Cylinder Kit Complete
(12)	FP-R66452	Connecting Rod Bolt
(4)	FP-R87561	Camshaft Bearing
(1)	FP-R82007	Camshaft Plug
(6)	FP-R525767	Rod Bearing Half Upper/Lower
(1)	FP-RE529320	Main Bearing, Flanged
(6)	FP-RE529319	Main Bearing, Plain
(1)	FP-PG6081S	In-Frame Gasket Set
	FP-KST2084A	
(4)	FP-SL2084	Sleeve Assembly
(4)	FP-AR45723	Connecting Rod Bearing Pair
(4)	FP-AR46396	Connecting Rod Bearing Pair
(4)	FP-AR46397	Connecting Rod Bearing Pair
(4)	FP-AR46398	Connecting Rod Bearing Pair
(1)	FP-MBK3001	Main Bearing Set
(1)	FP-MBK300110	Main Bearing Set
(1)	FP-MBK300120	Main Bearing Set
(1)	FP-MBK300130	Main Bearing Set
	FP-KST2279A	
(4)	FP-SL2279	Sleeve Assembly

(cont'd. next column)

Qty.	Part No.	Description
	FP-KST2279A (cont'd.)	
(4)	FP-AR45723	Connecting Rod Bearing Pair
(4)	FP-AR46396	Connecting Rod Bearing Pair
(4)	FP-AR46397	Connecting Rod Bearing Pair
(4)	FP-AR46398	Connecting Rod Bearing Pair
(1)	FP-MBK3001	Main Bearing Set
(1)	FP-MBK300110	Main Bearing Set
(1)	FP-MBK300120	Main Bearing Set
(1)	FP-MBK300130	Main Bearing Set
	FP-KST2454A	
(4)	FP-SL2454	Sleeve Assembly
(4)	FP-AR45723	Connecting Rod Bearing Pair
(4)	FP-AR46396	Connecting Rod Bearing Pair
(4)	FP-AR46397	Connecting Rod Bearing Pair
(4)	FP-AR46398	Connecting Rod Bearing Pair
(1)	FP-MBK3001	Main Bearing Set
(1)	FP-MBK300110	Main Bearing Set
(1)	FP-MBK300120	Main Bearing Set
(1)	FP-MBK300130	Main Bearing Set
	FP-OHPT6081	
(6)	FP-RE508156	Cylinder Kit Complete
(6)	FP-RE64509	Cylinder Kit Complete
(6)	FP-R525767	Rod Bearing Half Upper/Lower
(1)	FP-RE529320	Main Bearing, Flanged
(6)	FP-RE529319	Main Bearing, Plain
(6)	FP-R74008	Piston Pin Bushing
(4)	FP-R87561	Camshaft Bearing
(1)	FP-R82007	Camshaft Plug
(1)	FP-RE57187WS	Complete Overhaul Gasket Set
(12)	FP-R66452	Connecting Rod Bolt
	FP-135GEOHK	
(3)	SL-2689	Sleeve Assembly
(3)	FP-2595A	Connecting Rod Bearing Pair
(3)	FP-2595A10	Connecting Rod Bearing Pair
(3)	FP-2595A20	Connecting Rod Bearing Pair
(3)	FP-2595A30	Connecting Rod Bearing Pair
(1)	FP-MBK3002	Main Bearing Set
(1)	FP-MBK300210	Main Bearing Set
(1)	FP-MBK300220	Main Bearing Set
(1)	FP-MBK300230	Main Bearing Set
(1)	260-1385	Gasket Kit
	FP-135GLOHK	
(3)	SL-2688	Sleeve Assembly
(3)	FP-2595A	Connecting Rod Bearing Pair
(3)	FP-2595A10	Connecting Rod Bearing Pair
(3)	FP-2595A20	Connecting Rod Bearing Pair
(3)	FP-2595A30	Connecting Rod Bearing Pair
(1)	FP-MBK3002	Main Bearing Set
(1)	FP-MBK300210	Main Bearing Set
(1)	FP-MBK300220	Main Bearing Set
(1)	FP-MBK300230	Main Bearing Set
(1)	260-1385	Gasket Kit
	FP-152EORLIFK	
(3)	FP-CK34818635	Cylinder Kit Complete
(6)	FP-R74194	Connecting Rod Bolt
(3)	FP-RE27348	Connecting Rod Bearing Pair
(3)	FP-RE27349	Connecting Rod Bearing Pair
(3)	FP-RE27358	Connecting Rod Bearing Pair

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Qty.	Part No.	Description
	FP-152EORLIFK (cont'd.)	
(3)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(3)	FP-RE27352	Main Bearing, Plain
(3)	FP-RE27353	Main Bearing, Plain
(3)	FP-RE27360	Main Bearing, Plain
(3)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG152S	In-Frame Gasket Set
	FP-152EORLOHK	
(3)	FP-CK34818635	Cylinder Kit Complete
(3)	FP-RE27348	Connecting Rod Bearing Pair
(3)	FP-RE27349	Connecting Rod Bearing Pair
(3)	FP-RE27358	Connecting Rod Bearing Pair
(3)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(3)	FP-RE27352	Main Bearing, Plain
(3)	FP-RE27353	Main Bearing, Plain
(3)	FP-RE27360	Main Bearing, Plain
(3)	FP-RE27368	Main Bearing, Plain
(3)	FP-T23471	Piston Pin Bushing
(1)	FP-RE38570	Complete Overhaul Gasket Set
(6)	FP-R74194	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
	FP-152LIFK	
(3)	FP-AR71591	Cylinder Kit Complete
(6)	FP-R74194	Connecting Rod Bolt
(3)	FP-RE27348	Connecting Rod Bearing Pair
(3)	FP-RE27349	Connecting Rod Bearing Pair
(3)	FP-RE27358	Connecting Rod Bearing Pair
(3)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(3)	FP-RE27352	Main Bearing, Plain
(3)	FP-RE27353	Main Bearing, Plain
(3)	FP-RE27360	Main Bearing, Plain
(3)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG152S	In-Frame Gasket Set
	FP-152LOHK	
(3)	FP-AR71591	Cylinder Kit Complete
(3)	FP-RE27348	Connecting Rod Bearing Pair
(3)	FP-RE27349	Connecting Rod Bearing Pair
(3)	FP-RE27358	Connecting Rod Bearing Pair
(3)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(3)	FP-RE27352	Main Bearing, Plain
(3)	FP-RE27353	Main Bearing, Plain
(3)	FP-RE27360	Main Bearing, Plain
(3)	FP-RE27368	Main Bearing, Plain
(3)	FP-T23471	Piston Pin Bushing
(1)	FP-RE38570	Complete Overhaul Gasket Set
(6)	FP-R74194	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
	FP-164EORLIFK	
(3)	FP-CK83108636	Cylinder Kit Complete
(6)	FP-R74194	Connecting Rod Bolt

(cont'd. next column)

Qty.	Part No.	Description
	FP-164EORLIFK (cont'd.)	
(3)	FP-RE27348	Connecting Rod Bearing Pair
(3)	FP-RE27349	Connecting Rod Bearing Pair
(3)	FP-RE27358	Connecting Rod Bearing Pair
(3)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(3)	FP-RE27352	Main Bearing, Plain
(3)	FP-RE27353	Main Bearing, Plain
(3)	FP-RE27360	Main Bearing, Plain
(3)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG164S	In-Frame Gasket Set
	FP-164EORLOHK	
(3)	FP-CK83108636	Cylinder Kit Complete
(3)	FP-RE27348	Connecting Rod Bearing Pair
(3)	FP-RE27349	Connecting Rod Bearing Pair
(3)	FP-RE27358	Connecting Rod Bearing Pair
(3)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(3)	FP-RE27352	Main Bearing, Plain
(3)	FP-RE27353	Main Bearing, Plain
(3)	FP-RE27360	Main Bearing, Plain
(3)	FP-RE27368	Main Bearing, Plain
(3)	FP-T23471	Piston Pin Bushing
(1)	FP-RE50978	Complete Overhaul Gasket Set
(6)	FP-R74194	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
	FP-164LIFK	
(3)	FP-AR78041	Cylinder Kit Complete
(6)	FP-R74194	Connecting Rod Bolt
(3)	FP-RE27348	Connecting Rod Bearing Pair
(3)	FP-RE27349	Connecting Rod Bearing Pair
(3)	FP-RE27358	Connecting Rod Bearing Pair
(3)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(3)	FP-RE27352	Main Bearing, Plain
(3)	FP-RE27353	Main Bearing, Plain
(3)	FP-RE27360	Main Bearing, Plain
(3)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG164S	In-Frame Gasket Set
	FP-164LOHK	
(3)	FP-AR78041	Cylinder Kit Complete
(3)	FP-RE27348	Connecting Rod Bearing Pair
(3)	FP-RE27349	Connecting Rod Bearing Pair
(3)	FP-RE27358	Connecting Rod Bearing Pair
(3)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(3)	FP-RE27352	Main Bearing, Plain
(3)	FP-RE27353	Main Bearing, Plain
(3)	FP-RE27360	Main Bearing, Plain
(3)	FP-RE27368	Main Bearing, Plain
(3)	FP-R55647	Piston Pin Bushing
(1)	FP-RE50978	Complete Overhaul Gasket Set

(cont'd. next page)

Qty.	Part No.	Description
	FP-164LOHK (cont'd.)	
(6)	FP-R74194	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
	FP-164MIFK	
(3)	FP-AR71593	Cylinder Kit Complete
(6)	FP-R74194	Connecting Rod Bolt
(3)	FP-RE27348	Connecting Rod Bearing Pair
(3)	FP-RE27349	Connecting Rod Bearing Pair
(3)	FP-RE27358	Connecting Rod Bearing Pair
(3)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(3)	FP-RE27352	Main Bearing, Plain
(3)	FP-RE27353	Main Bearing, Plain
(3)	FP-RE27360	Main Bearing, Plain
(3)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG164S	In-Frame Gasket Set
	FP-164MOHK	
(3)	FP-AR71593	Cylinder Kit Complete
(3)	FP-RE27348	Connecting Rod Bearing Pair
(3)	FP-RE27349	Connecting Rod Bearing Pair
(3)	FP-RE27358	Connecting Rod Bearing Pair
(3)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(3)	FP-RE27352	Main Bearing, Plain
(3)	FP-RE27353	Main Bearing, Plain
(3)	FP-RE27360	Main Bearing, Plain
(3)	FP-RE27368	Main Bearing, Plain
(3)	FP-T23471	Piston Pin Bushing
(1)	FP-RE50978	Complete Overhaul Gasket Set
(6)	FP-R74194	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
	FP-179DIFK	
(3)	FP-RE30250	Cylinder Kit Complete
(6)	FP-R80033	Connecting Rod Bolt
(3)	FP-RE27348	Connecting Rod Bearing Pair
(3)	FP-RE27349	Connecting Rod Bearing Pair
(3)	FP-RE27358	Connecting Rod Bearing Pair
(3)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(3)	FP-RE27352	Main Bearing, Plain
(3)	FP-RE27353	Main Bearing, Plain
(3)	FP-RE27360	Main Bearing, Plain
(3)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG164S	In-Frame Gasket Set
	FP-179DOHK	
(3)	FP-RE30250	Cylinder Kit Complete
(3)	FP-RE27348	Connecting Rod Bearing Pair
(3)	FP-RE27349	Connecting Rod Bearing Pair
(3)	FP-RE27358	Connecting Rod Bearing Pair
(3)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(3)	FP-RE27352	Main Bearing, Plain

(cont'd. next column)

Qty.	Part No.	Description
	FP-179DOHK (cont'd.)	
(3)	FP-RE27353	Main Bearing, Plain
(3)	FP-RE27360	Main Bearing, Plain
(3)	FP-RE27368	Main Bearing, Plain
(3)	FP-R55647	Piston Pin Bushing
(1)	FP-RE50978	Complete Overhaul Gasket Set
(6)	FP-R80033	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
	FP-179TIFK	
(3)	FP-RE33115	Cylinder Kit Complete
(6)	FP-R80033	Connecting Rod Bolt
(3)	FP-RE27348	Connecting Rod Bearing Pair
(3)	FP-RE27349	Connecting Rod Bearing Pair
(3)	FP-RE27358	Connecting Rod Bearing Pair
(3)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(3)	FP-RE27352	Main Bearing, Plain
(3)	FP-RE27353	Main Bearing, Plain
(3)	FP-RE27360	Main Bearing, Plain
(3)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG164S	In-Frame Gasket Set
	FP-179TOHK	
(3)	FP-RE33115	Cylinder Kit Complete
(3)	FP-RE27348	Connecting Rod Bearing Pair
(3)	FP-RE27349	Connecting Rod Bearing Pair
(3)	FP-RE27358	Connecting Rod Bearing Pair
(3)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(3)	FP-RE27352	Main Bearing, Plain
(3)	FP-RE27353	Main Bearing, Plain
(3)	FP-RE27360	Main Bearing, Plain
(3)	FP-RE27368	Main Bearing, Plain
(3)	FP-R57451	Piston Pin Bushing
(1)	FP-RE50978	Complete Overhaul Gasket Set
(6)	FP-R80033	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
	FP-180GEOHK	
(4)	SL-2689	Sleeve Assembly
(4)	FP-2595A	Connecting Rod Bearing Pair
(4)	FP-2595A10	Connecting Rod Bearing Pair
(4)	FP-2595A20	Connecting Rod Bearing Pair
(4)	FP-2595A30	Connecting Rod Bearing Pair
(1)	FP-MBK300210	Main Bearing Set
(1)	FP-MBK300220	Main Bearing Set
(1)	FP-MBK300230	Main Bearing Set
(1)	260-1386	Gasket Kit
	FP-180GLOHK	
(4)	SL-2688	Sleeve Assembly
(4)	FP-2595A	Connecting Rod Bearing Pair
(4)	FP-2595A10	Connecting Rod Bearing Pair
(4)	FP-2595A20	Connecting Rod Bearing Pair
(4)	FP-2595A30	Connecting Rod Bearing Pair
(1)	FP-MBK3002	Main Bearing Set
(1)	FP-MBK300210	Main Bearing Set
(1)	FP-MBK300220	Main Bearing Set
(1)	FP-MBK300230	Main Bearing Set
(1)	260-1386	Gasket Kit

Qty.	Part No.	Description
	FP-202EORLIFK	
(4)	FP-CK34818635	Cylinder Kit Complete
(8)	FP-R74194	Connecting Rod Bolt
(4)	FP-RE27348	Connecting Rod Bearing Pair
(4)	FP-RE27349	Connecting Rod Bearing Pair
(4)	FP-RE27358	Connecting Rod Bearing Pair
(4)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG202S	In-Frame Gasket Set
	FP-202EORLOHK	
(4)	FP-CK34818635	Cylinder Kit Complete
(4)	FP-RE27348	Connecting Rod Bearing Pair
(4)	FP-RE27349	Connecting Rod Bearing Pair
(4)	FP-RE27358	Connecting Rod Bearing Pair
(4)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(4)	FP-T23471	Piston Pin Bushing
(6)	FP-R57160	Balance Shaft Bearing
(1)	FP-RE38558	Complete Overhaul Gasket Set
(8)	FP-R74194	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
	FP-202LIFK	
(4)	FP-AR71591	Cylinder Kit Complete
(8)	FP-R74194	Connecting Rod Bolt
(4)	FP-RE27348	Connecting Rod Bearing Pair
(4)	FP-RE27349	Connecting Rod Bearing Pair
(4)	FP-RE27358	Connecting Rod Bearing Pair
(4)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG202S	In-Frame Gasket Set
	FP-202LOHK	
(4)	FP-AR71591	Cylinder Kit Complete
(4)	FP-RE27348	Connecting Rod Bearing Pair
(4)	FP-RE27349	Connecting Rod Bearing Pair
(4)	FP-RE27358	Connecting Rod Bearing Pair
(4)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain

(cont'd. next column)

Qty.	Part No.	Description
	FP-202LOHK (cont'd.)	
(4)	FP-T23471	Piston Pin Bushing
(6)	FP-R57160	Balance Shaft Bearing
(1)	FP-RE38558	Complete Overhaul Gasket Set
(8)	FP-R74194	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
	FP-219EORLIFK	
(4)	FP-CK83108636	Cylinder Kit Complete
(8)	FP-R74194	Connecting Rod Bolt
(4)	FP-RE27348	Connecting Rod Bearing Pair
(4)	FP-RE27349	Connecting Rod Bearing Pair
(4)	FP-RE27358	Connecting Rod Bearing Pair
(4)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG219S	In-Frame Gasket Set
	FP-219EORLOHK	
(4)	FP-CK83108636	Cylinder Kit Complete
(4)	FP-RE27348	Connecting Rod Bearing Pair
(4)	FP-RE27349	Connecting Rod Bearing Pair
(4)	FP-RE27358	Connecting Rod Bearing Pair
(4)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(4)	FP-T23471	Piston Pin Bushing
(6)	FP-R57160	Balance Shaft Bearing
(1)	FP-RE38857	Complete Overhaul Gasket Set
(8)	FP-R74194	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
	FP-219LIFK	
(4)	FP-AR78041	Cylinder Kit Complete
(8)	FP-R74194	Connecting Rod Bolt
(4)	FP-RE27348	Connecting Rod Bearing Pair
(4)	FP-RE27349	Connecting Rod Bearing Pair
(4)	FP-RE27358	Connecting Rod Bearing Pair
(4)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG219S	In-Frame Gasket Set
	FP-219LOHK	
(4)	FP-AR78041	Cylinder Kit Complete
(4)	FP-RE27348	Connecting Rod Bearing Pair
(4)	FP-RE27349	Connecting Rod Bearing Pair
(4)	FP-RE27358	Connecting Rod Bearing Pair
(4)	FP-RE27364	Connecting Rod Bearing Pair

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Engine Kit Bill of Material

Qty.	Part No.	Description
	FP-219LOHK (cont'd.)	
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(4)	FP-R55647	Piston Pin Bushing
(6)	FP-R57160	Balance Shaft Bearing
(1)	FP-RE38857	Complete Overhaul Gasket Set
(8)	FP-R74194	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
	FP-219MIFK	
(4)	FP-AR71593	Cylinder Kit Complete
(8)	FP-R74194	Connecting Rod Bolt
(4)	FP-RE27348	Connecting Rod Bearing Pair
(4)	FP-RE27349	Connecting Rod Bearing Pair
(4)	FP-RE27358	Connecting Rod Bearing Pair
(4)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG219S	In-Frame Gasket Set
	FP-219MOHK	
(4)	FP-AR71593	Cylinder Kit Complete
(4)	FP-RE27348	Connecting Rod Bearing Pair
(4)	FP-RE27349	Connecting Rod Bearing Pair
(4)	FP-RE27358	Connecting Rod Bearing Pair
(4)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(4)	FP-T23471	Piston Pin Bushing
(6)	FP-R57160	Balance Shaft Bearing
(1)	FP-RE38857	Complete Overhaul Gasket Set
(8)	FP-R74194	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
	FP-239DIFK	
(4)	FP-RE30250	Cylinder Kit Complete
(8)	FP-R80033	Connecting Rod Bolt
(4)	FP-RE27348	Connecting Rod Bearing Pair
(4)	FP-RE27349	Connecting Rod Bearing Pair
(4)	FP-RE27358	Connecting Rod Bearing Pair
(4)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG219S	In-Frame Gasket Set
	FP-239DOHK	
(4)	FP-RE30250	Cylinder Kit Complete
(4)	FP-RE27348	Connecting Rod Bearing Pair
(4)	FP-RE27349	Connecting Rod Bearing Pair
(4)	FP-RE27358	Connecting Rod Bearing Pair
(4)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(4)	FP-R57451	Piston Pin Bushing
(6)	FP-R57160	Balance Shaft Bearing
(1)	FP-RE38857	Complete Overhaul Gasket Set
(8)	FP-R80033	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
	FP-239TIFK	
(4)	FP-RE33115	Cylinder Kit Complete
(8)	FP-R80033	Connecting Rod Bolt
(4)	FP-RE27348	Connecting Rod Bearing Pair
(4)	FP-RE27349	Connecting Rod Bearing Pair
(4)	FP-RE27358	Connecting Rod Bearing Pair
(4)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG219S	In-Frame Gasket Set
	FP-239TOHK	
(4)	FP-RE33115	Cylinder Kit Complete
(4)	FP-RE27348	Connecting Rod Bearing Pair
(4)	FP-RE27349	Connecting Rod Bearing Pair
(4)	FP-RE27358	Connecting Rod Bearing Pair
(4)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(4)	FP-R57451	Piston Pin Bushing
(6)	FP-R57160	Balance Shaft Bearing
(1)	FP-RE38857	Complete Overhaul Gasket Set
(8)	FP-R80033	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
	FP-253	
(1)	FP-5116255	Oil Pan Gasket
(2)	FP-5198899	Cylinder Kit Complete
(2)	FP-519889910	Cylinder Kit Complete
(2)	FP-519889920	Cylinder Kit Complete
(2)	FP-5198903	Cylinder Kit Complete
(2)	FP-519890310	Cylinder Kit Complete
(2)	FP-519890320	Cylinder Kit Complete
(2)	FP-5149452	Connecting Rod Bearing Pair
(2)	FP-5149454	Connecting Rod Bearing Pair
(2)	FP-5149455	Connecting Rod Bearing Pair

(cont'd. next column)

Qty.	Part No.	Description
	FP-253 (cont'd.)	
(2)	FP-5149456	Connecting Rod Bearing Pair
(3)	FP-8924357	Main Bearing, Plain
(3)	FP-8924359	Main Bearing, Plain
(3)	FP-8924360	Main Bearing, Plain
(3)	FP-8924361	Main Bearing, Plain
(4)	FP-5116197	Thrust Washer
(1)	FP-5199809	Head Gasket Set
(1)	FP-5147993	Valve Cover Gasket
	FP-253OH	
(2)	FP-5198899	Cylinder Kit Complete
(2)	FP-519889910	Cylinder Kit Complete
(2)	FP-519889920	Cylinder Kit Complete
(2)	FP-5198903	Cylinder Kit Complete
(2)	FP-519890310	Cylinder Kit Complete
(2)	FP-519890320	Cylinder Kit Complete
(2)	FP-5149452	Connecting Rod Bearing Pair
(2)	FP-5149454	Connecting Rod Bearing Pair
(2)	FP-5149455	Connecting Rod Bearing Pair
(2)	FP-5149456	Connecting Rod Bearing Pair
(3)	FP-8924357	Main Bearing, Plain
(3)	FP-8924359	Main Bearing, Plain
(3)	FP-8924360	Main Bearing, Plain
(3)	FP-8924361	Main Bearing, Plain
(4)	FP-5116197	Thrust Washer
(1)	FP-23517625	Complete Overhaul Gasket Set
(1)	FP-5147993	Valve Cover Gasket
	FP-270EIFK	
(4)	FP-RE23173	Cylinder Kit Complete
(8)	FP-R66452	Connecting Rod Bolt
(4)	FP-AR45723	Connecting Rod Bearing Pair
(4)	FP-AR46396	Connecting Rod Bearing Pair
(4)	FP-AR46397	Connecting Rod Bearing Pair
(4)	FP-AR46398	Connecting Rod Bearing Pair
(1)	FP-AR49238	Main Bearing, Flanged
(1)	FP-AR49239	Main Bearing, Flanged
(1)	FP-AR49240	Main Bearing, Flanged
(1)	FP-AR49242	Main Bearing, Flanged
(1)	FP-AR77754	Main Bearing, Flanged
(1)	FP-AR77756	Main Bearing, Flanged
(1)	FP-AR77757	Main Bearing, Flanged
(1)	FP-AR77758	Main Bearing, Flanged
(4)	FP-AR49243	Main Bearing, Plain
(4)	FP-AR49245	Main Bearing, Plain
(4)	FP-AR49246	Main Bearing, Plain
(4)	FP-AR49247	Main Bearing, Plain
(1)	FP-AR77747	Thrust Washer Set
(1)	FP-PG270ES	In-Frame Gasket Set
	FP-270EOHK	
(4)	FP-RE23173	Cylinder Kit Complete
(4)	FP-AR45723	Connecting Rod Bearing Pair
(4)	FP-AR46396	Connecting Rod Bearing Pair
(4)	FP-AR46397	Connecting Rod Bearing Pair
(4)	FP-AR46398	Connecting Rod Bearing Pair
(1)	FP-AR49238	Main Bearing, Flanged
(1)	FP-AR49239	Main Bearing, Flanged
(1)	FP-AR49240	Main Bearing, Flanged
(1)	FP-AR49242	Main Bearing, Flanged
(1)	FP-AR77754	Main Bearing, Flanged
(1)	FP-AR77756	Main Bearing, Flanged
(1)	FP-AR77757	Main Bearing, Flanged
(1)	FP-AR77758	Main Bearing, Flanged
(4)	FP-AR49243	Main Bearing, Plain
(4)	FP-AR49245	Main Bearing, Plain
(4)	FP-AR49246	Main Bearing, Plain
(4)	FP-AR49247	Main Bearing, Plain
(4)	FP-R30939	Piston Pin Bushing
(1)	FP-AR77747	Thrust Washer Set

(cont'd. next column)

Qty.	Part No.	Description
	FP-270EOHK (cont'd.)	
(3)	FP-R46903	Camshaft Bearing
(1)	FP-R26115	Camshaft Plug
(1)	FP-AR53033	Complete Overhaul Gasket Set
(8)	FP-R66452	Connecting Rod Bolt
(1)	FP-SK49025	Oil Seal Kit
	FP-270LIFK	
(4)	FP-RE23165	Cylinder Kit Complete
(8)	FP-R66452	Connecting Rod Bolt
(4)	FP-AR45723	Connecting Rod Bearing Pair
(4)	FP-AR46396	Connecting Rod Bearing Pair
(4)	FP-AR46397	Connecting Rod Bearing Pair
(4)	FP-AR46398	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged
(4)	FP-AR74814	Main Bearing, Plain
(4)	FP-AR74816	Main Bearing, Plain
(4)	FP-AR74817	Main Bearing, Plain
(4)	FP-AR74818	Main Bearing, Plain
(1)	FP-AR77747	Thrust Washer Set
(1)	FP-PG270LS	In-Frame Gasket Set
	FP-270LOHK	
(4)	FP-RE23165	Cylinder Kit Complete
(4)	FP-AR45723	Connecting Rod Bearing Pair
(4)	FP-AR46396	Connecting Rod Bearing Pair
(4)	FP-AR46397	Connecting Rod Bearing Pair
(4)	FP-AR46398	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged
(1)	FP-AR77752	Main Bearing, Flanged
(4)	FP-AR74814	Main Bearing, Plain
(4)	FP-AR74816	Main Bearing, Plain
(4)	FP-AR74817	Main Bearing, Plain
(4)	FP-AR74818	Main Bearing, Plain
(4)	FP-R30939	Piston Pin Bushing
(1)	FP-AR77747	Thrust Washer Set
(3)	FP-R46903	Camshaft Bearing
(1)	FP-R26115	Camshaft Plug
(1)	FP-AR53035	Complete Overhaul Gasket Set
(8)	FP-R66452	Connecting Rod Bolt
(1)	FP-SK49025	Oil Seal Kit
	FP-270RBIFK	
(4)	FP-RE23170	Cylinder Kit Complete
(8)	FP-R66452	Connecting Rod Bolt
(4)	FP-AR45723	Connecting Rod Bearing Pair
(4)	FP-AR46396	Connecting Rod Bearing Pair
(4)	FP-AR46397	Connecting Rod Bearing Pair
(4)	FP-AR46398	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged
(4)	FP-AR74814	Main Bearing, Plain
(4)	FP-AR74816	Main Bearing, Plain
(4)	FP-AR74817	Main Bearing, Plain
(4)	FP-AR74818	Main Bearing, Plain
(1)	FP-AR77747	Thrust Washer Set
(1)	FP-PG270ES	In-Frame Gasket Set
	FP-270RBOHK	
(4)	FP-RE23170	Cylinder Kit Complete
(4)	FP-AR45723	Connecting Rod Bearing Pair
(4)	FP-AR46396	Connecting Rod Bearing Pair
(4)	FP-AR46397	Connecting Rod Bearing Pair

(cont'd. next page)

Qty.	Part No.	Description
FP-270RBOHK (cont'd.)		
(4)	FP-AR46398	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged
(4)	FP-AR74814	Main Bearing, Plain
(4)	FP-AR74816	Main Bearing, Plain
(4)	FP-AR74817	Main Bearing, Plain
(4)	FP-AR74818	Main Bearing, Plain
(4)	FP-R30939	Piston Pin Bushing
(1)	FP-AR77747	Thrust Washer Set
(3)	FP-R46903	Camshaft Bearing
(1)	FP-R26115	Camshaft Plug
(1)	FP-AR53033	Complete Overhaul Gasket Set
(8)	FP-R66452	Connecting Rod Bolt
(1)	FP-SK49025	Oil Seal Kit
FP-276DLPIFK		
(4)	FP-RE19833	Cylinder Kit Complete
(8)	FP-R74195	Connecting Rod Bolt
(4)	FP-AR97517	Connecting Rod Bearing Pair
(4)	FP-AR97653	Connecting Rod Bearing Pair
(4)	FP-AR97654	Connecting Rod Bearing Pair
(4)	FP-AR97655	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG219S	In-Frame Gasket Set
FP-276DLPOHK		
(4)	FP-RE19833	Cylinder Kit Complete
(4)	FP-AR97517	Connecting Rod Bearing Pair
(4)	FP-AR97653	Connecting Rod Bearing Pair
(4)	FP-AR97654	Connecting Rod Bearing Pair
(4)	FP-AR97655	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(4)	FP-R57451	Piston Pin Bushing
(6)	FP-R57160	Balance Shaft Bearing
(1)	FP-RE37715	Complete Overhaul Gasket Set
(8)	FP-R74195	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
FP-276DSPIFK		
(4)	FP-RE19831	Cylinder Kit Complete
(8)	FP-R74195	Connecting Rod Bolt
(4)	FP-AR97517	Connecting Rod Bearing Pair
(4)	FP-AR97653	Connecting Rod Bearing Pair
(4)	FP-AR97654	Connecting Rod Bearing Pair
(4)	FP-AR97655	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG219S	In-Frame Gasket Set

Qty.	Part No.	Description
FP-276DSPOHK		
(4)	FP-RE19831	Cylinder Kit Complete
(4)	FP-AR97517	Connecting Rod Bearing Pair
(4)	FP-AR97653	Connecting Rod Bearing Pair
(4)	FP-AR97654	Connecting Rod Bearing Pair
(4)	FP-AR97655	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(4)	FP-R57450	Piston Pin Bushing
(6)	FP-R57160	Balance Shaft Bearing
(1)	FP-RE37715	Complete Overhaul Gasket Set
(8)	FP-R74195	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
FP-276TIFK		
(4)	FP-RE19832	Cylinder Kit Complete
(8)	FP-R74195	Connecting Rod Bolt
(4)	FP-AR97517	Connecting Rod Bearing Pair
(4)	FP-AR97653	Connecting Rod Bearing Pair
(4)	FP-AR97654	Connecting Rod Bearing Pair
(4)	FP-AR97655	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG219S	In-Frame Gasket Set
FP-276TOHK		
(4)	FP-RE19832	Cylinder Kit Complete
(4)	FP-AR97517	Connecting Rod Bearing Pair
(4)	FP-AR97653	Connecting Rod Bearing Pair
(4)	FP-AR97654	Connecting Rod Bearing Pair
(4)	FP-AR97655	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(4)	FP-R57451	Piston Pin Bushing
(6)	FP-R57160	Balance Shaft Bearing
(1)	FP-RE37715	Complete Overhaul Gasket Set
(8)	FP-R74195	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
FP-303EORLIFK		
(6)	FP-CK34818635	Cylinder Kit Complete
(12)	FP-R74194	Connecting Rod Bolt
(6)	FP-RE27348	Connecting Rod Bearing Pair
(6)	FP-RE27349	Connecting Rod Bearing Pair
(6)	FP-RE27358	Connecting Rod Bearing Pair
(6)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged

(cont'd. next column)

Qty.	Part No.	Description
FP-303EORLIFK (cont'd.)		
(1)	FP-RE527236	Main Bearing, Flanged
(6)	FP-RE27352	Main Bearing, Plain
(6)	FP-RE27353	Main Bearing, Plain
(6)	FP-RE27360	Main Bearing, Plain
(6)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG303S	In-Frame Gasket Set
FP-303EORLOHK		
(6)	FP-CK34818635	Cylinder Kit Complete
(6)	FP-RE27348	Connecting Rod Bearing Pair
(6)	FP-RE27349	Connecting Rod Bearing Pair
(6)	FP-RE27358	Connecting Rod Bearing Pair
(6)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(6)	FP-RE27352	Main Bearing, Plain
(6)	FP-RE27353	Main Bearing, Plain
(6)	FP-RE27360	Main Bearing, Plain
(6)	FP-RE27368	Main Bearing, Plain
(6)	FP-T23471	Piston Pin Bushing
(1)	FP-RE38568	Complete Overhaul Gasket Set
(12)	FP-R74194	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
FP-303LIFK		
(6)	FP-AR71591	Cylinder Kit Complete
(12)	FP-R74194	Connecting Rod Bolt
(6)	FP-RE27348	Connecting Rod Bearing Pair
(6)	FP-RE27349	Connecting Rod Bearing Pair
(6)	FP-RE27358	Connecting Rod Bearing Pair
(6)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(6)	FP-RE27352	Main Bearing, Plain
(6)	FP-RE27353	Main Bearing, Plain
(6)	FP-RE27360	Main Bearing, Plain
(6)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG303S	In-Frame Gasket Set
FP-303LOHK		
(6)	FP-AR71591	Cylinder Kit Complete
(6)	FP-RE27348	Connecting Rod Bearing Pair
(6)	FP-RE27349	Connecting Rod Bearing Pair
(6)	FP-RE27358	Connecting Rod Bearing Pair
(6)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(6)	FP-RE27352	Main Bearing, Plain
(6)	FP-RE27353	Main Bearing, Plain
(6)	FP-RE27360	Main Bearing, Plain
(6)	FP-RE27368	Main Bearing, Plain
(6)	FP-T23471	Piston Pin Bushing
(1)	FP-RE38568	Complete Overhaul Gasket Set
(12)	FP-R74194	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
FP-329EORLIFK		
(6)	FP-CK83108636	Cylinder Kit Complete
(12)	FP-R74194	Connecting Rod Bolt
(6)	FP-RE27348	Connecting Rod Bearing Pair
(6)	FP-RE27349	Connecting Rod Bearing Pair

(cont'd. next column)

Qty.	Part No.	Description
FP-329EORLIFK (cont'd.)		
(6)	FP-RE27358	Connecting Rod Bearing Pair
(6)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(6)	FP-RE27352	Main Bearing, Plain
(6)	FP-RE27353	Main Bearing, Plain
(6)	FP-RE27360	Main Bearing, Plain
(6)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG329S	In-Frame Gasket Set
FP-329EORLOHK		
(6)	FP-CK83108636	Cylinder Kit Complete
(6)	FP-RE27348	Connecting Rod Bearing Pair
(6)	FP-RE27349	Connecting Rod Bearing Pair
(6)	FP-RE27358	Connecting Rod Bearing Pair
(6)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(6)	FP-RE27352	Main Bearing, Plain
(6)	FP-RE27353	Main Bearing, Plain
(6)	FP-RE27360	Main Bearing, Plain
(6)	FP-RE27368	Main Bearing, Plain
(6)	FP-T23471	Piston Pin Bushing
(1)	FP-RE38859	Complete Overhaul Gasket Set
(12)	FP-R74194	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
FP-329LIFK		
(6)	FP-AR78041	Cylinder Kit Complete
(12)	FP-R74194	Connecting Rod Bolt
(6)	FP-RE27348	Connecting Rod Bearing Pair
(6)	FP-RE27349	Connecting Rod Bearing Pair
(6)	FP-RE27358	Connecting Rod Bearing Pair
(6)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(6)	FP-RE27352	Main Bearing, Plain
(6)	FP-RE27353	Main Bearing, Plain
(6)	FP-RE27360	Main Bearing, Plain
(6)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG329S	In-Frame Gasket Set
FP-329LOHK		
(6)	FP-AR78041	Cylinder Kit Complete
(6)	FP-RE27348	Connecting Rod Bearing Pair
(6)	FP-RE27349	Connecting Rod Bearing Pair
(6)	FP-RE27358	Connecting Rod Bearing Pair
(6)	FP-RE27364	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(6)	FP-RE27352	Main Bearing, Plain
(6)	FP-RE27353	Main Bearing, Plain
(6)	FP-RE27360	Main Bearing, Plain
(6)	FP-RE27368	Main Bearing, Plain
(6)	FP-R55647	Piston Pin Bushing
(1)	FP-RE38859	Complete Overhaul Gasket Set
(12)	FP-R74194	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit

Engine Kit Bill of Material

Qty.	Part No.	Description
	FP-329MIFK	
(6)	**FP-AR71593**	Cylinder Kit Complete
(12)	**FP-R74194**	Connecting Rod Bolt
(6)	**FP-RE27348**	Connecting Rod Bearing Pair
(6)	**FP-RE27349**	Connecting Rod Bearing Pair
(6)	**FP-RE27358**	Connecting Rod Bearing Pair
(6)	**FP-RE27364**	Connecting Rod Bearing Pair
(1)	**FP-RE521350**	Main Bearing, Flanged
(1)	**FP-RE526754**	Main Bearing, Flanged
(1)	**FP-RE527235**	Main Bearing, Flanged
(1)	**FP-RE527236**	Main Bearing, Flanged
(6)	**FP-RE27352**	Main Bearing, Plain
(6)	**FP-RE27353**	Main Bearing, Plain
(6)	**FP-RE27360**	Main Bearing, Plain
(6)	**FP-RE27368**	Main Bearing, Plain
(1)	**FP-PG329S**	In-Frame Gasket Set
	FP-329MOHK	
(6)	**FP-AR71593**	Cylinder Kit Complete
(6)	**FP-RE27348**	Connecting Rod Bearing Pair
(6)	**FP-RE27349**	Connecting Rod Bearing Pair
(6)	**FP-RE27358**	Connecting Rod Bearing Pair
(6)	**FP-RE27364**	Connecting Rod Bearing Pair
(1)	**FP-RE521350**	Main Bearing, Flanged
(1)	**FP-RE526754**	Main Bearing, Flanged
(1)	**FP-RE527235**	Main Bearing, Flanged
(1)	**FP-RE527236**	Main Bearing, Flanged
(6)	**FP-RE27352**	Main Bearing, Plain
(6)	**FP-RE27353**	Main Bearing, Plain
(6)	**FP-RE27360**	Main Bearing, Plain
(6)	**FP-RE27368**	Main Bearing, Plain
(6)	**FP-T23471**	Piston Pin Bushing
(1)	**FP-RE38859**	Complete Overhaul Gasket Set
(12)	**FP-R74194**	Connecting Rod Bolt
(1)	**FP-SK67942**	Oil Seal Kit
	FP-359DIFK	
(6)	**FP-RE30250**	Cylinder Kit Complete
(12)	**FP-R80033**	Connecting Rod Bolt
(6)	**FP-RE27348**	Connecting Rod Bearing Pair
(6)	**FP-RE27349**	Connecting Rod Bearing Pair
(6)	**FP-RE27358**	Connecting Rod Bearing Pair
(6)	**FP-RE27364**	Connecting Rod Bearing Pair
(1)	**FP-RE521350**	Main Bearing, Flanged
(1)	**FP-RE526754**	Main Bearing, Flanged
(1)	**FP-RE527235**	Main Bearing, Flanged
(1)	**FP-RE527236**	Main Bearing, Flanged
(6)	**FP-RE27352**	Main Bearing, Plain
(6)	**FP-RE27353**	Main Bearing, Plain
(6)	**FP-RE27360**	Main Bearing, Plain
(6)	**FP-RE27368**	Main Bearing, Plain
(1)	**FP-PG359S**	In-Frame Gasket Set
	FP-359DOHK	
(6)	**FP-RE30250**	Cylinder Kit Complete
(6)	**FP-RE27348**	Connecting Rod Bearing Pair
(6)	**FP-RE27349**	Connecting Rod Bearing Pair
(6)	**FP-RE27358**	Connecting Rod Bearing Pair
(6)	**FP-RE27364**	Connecting Rod Bearing Pair
(1)	**FP-RE521350**	Main Bearing, Flanged
(1)	**FP-RE526754**	Main Bearing, Flanged
(1)	**FP-RE527235**	Main Bearing, Flanged
(1)	**FP-RE527236**	Main Bearing, Flanged
(6)	**FP-RE27352**	Main Bearing, Plain
(6)	**FP-RE27353**	Main Bearing, Plain
(6)	**FP-RE27360**	Main Bearing, Plain
(6)	**FP-RE27368**	Main Bearing, Plain
(6)	**FP-R55647**	Piston Pin Bushing

(cont'd. next column)

Qty.	Part No.	Description
	FP-359DOHK (cont'd.)	
(1)	**FP-RE38858**	Complete Overhaul Gasket Set
(12)	**FP-R80033**	Connecting Rod Bolt
(1)	**FP-SK67942**	Oil Seal Kit
	FP-359TIFK	
(6)	**FP-RE33115**	Cylinder Kit Complete
(12)	**FP-R80033**	Connecting Rod Bolt
(6)	**FP-RE27348**	Connecting Rod Bearing Pair
(6)	**FP-RE27349**	Connecting Rod Bearing Pair
(6)	**FP-RE27358**	Connecting Rod Bearing Pair
(6)	**FP-RE27364**	Connecting Rod Bearing Pair
(1)	**FP-RE521350**	Main Bearing, Flanged
(1)	**FP-RE526754**	Main Bearing, Flanged
(1)	**FP-RE527235**	Main Bearing, Flanged
(1)	**FP-RE527236**	Main Bearing, Flanged
(6)	**FP-RE27352**	Main Bearing, Plain
(6)	**FP-RE27353**	Main Bearing, Plain
(6)	**FP-RE27360**	Main Bearing, Plain
(6)	**FP-RE27368**	Main Bearing, Plain
(1)	**FP-PG359S**	In-Frame Gasket Set
	FP-359TOHK	
(6)	**FP-RE33115**	Cylinder Kit Complete
(6)	**FP-RE27348**	Connecting Rod Bearing Pair
(6)	**FP-RE27349**	Connecting Rod Bearing Pair
(6)	**FP-RE27358**	Connecting Rod Bearing Pair
(6)	**FP-RE27364**	Connecting Rod Bearing Pair
(1)	**FP-RE521350**	Main Bearing, Flanged
(1)	**FP-RE526754**	Main Bearing, Flanged
(1)	**FP-RE527235**	Main Bearing, Flanged
(1)	**FP-RE527236**	Main Bearing, Flanged
(6)	**FP-RE27352**	Main Bearing, Plain
(6)	**FP-RE27353**	Main Bearing, Plain
(6)	**FP-RE27360**	Main Bearing, Plain
(6)	**FP-RE27368**	Main Bearing, Plain
(6)	**FP-R57451**	Piston Pin Bushing
(1)	**FP-RE38858**	Complete Overhaul Gasket Set
(12)	**FP-R80033**	Connecting Rod Bolt
(1)	**FP-SK67942**	Oil Seal Kit
	FP-404DEIFK	
(6)	**FP-RE23173**	Cylinder Kit Complete
(12)	**FP-R66452**	Connecting Rod Bolt
(6)	**FP-AR45723**	Connecting Rod Bearing Pair
(6)	**FP-AR46396**	Connecting Rod Bearing Pair
(6)	**FP-AR46397**	Connecting Rod Bearing Pair
(6)	**FP-AR46398**	Connecting Rod Bearing Pair
(1)	**FP-AR49238**	Main Bearing, Flanged
(1)	**FP-AR49239**	Main Bearing, Flanged
(1)	**FP-AR49240**	Main Bearing, Flanged
(1)	**FP-AR49242**	Main Bearing, Flanged
(1)	**FP-AR77754**	Main Bearing, Flanged
(1)	**FP-AR77756**	Main Bearing, Flanged
(1)	**FP-AR77757**	Main Bearing, Flanged
(1)	**FP-AR77758**	Main Bearing, Flanged
(6)	**FP-AR49243**	Main Bearing, Plain
(6)	**FP-AR49245**	Main Bearing, Plain
(6)	**FP-AR49246**	Main Bearing, Plain
(6)	**FP-AR49247**	Main Bearing, Plain
(1)	**FP-AR77747**	Thrust Washer Set
(1)	**FP-PG404DES**	In-Frame Gasket Set
	FP-404DEOHK	
(6)	**FP-RE23173**	Cylinder Kit Complete
(6)	**FP-AR45723**	Connecting Rod Bearing Pair
(6)	**FP-AR46396**	Connecting Rod Bearing Pair
(6)	**FP-AR46397**	Connecting Rod Bearing Pair

(cont'd. next column)

Qty.	Part No.	Description
	FP-404DEOHK (cont'd.)	
(6)	**FP-AR46398**	Connecting Rod Bearing Pair
(1)	**FP-AR49238**	Main Bearing, Flanged
(1)	**FP-AR49239**	Main Bearing, Flanged
(1)	**FP-AR49240**	Main Bearing, Flanged
(1)	**FP-AR49242**	Main Bearing, Flanged
(1)	**FP-AR77754**	Main Bearing, Flanged
(1)	**FP-AR77756**	Main Bearing, Flanged
(1)	**FP-AR77757**	Main Bearing, Flanged
(1)	**FP-AR77758**	Main Bearing, Flanged
(6)	**FP-AR49243**	Main Bearing, Plain
(6)	**FP-AR49245**	Main Bearing, Plain
(6)	**FP-AR49246**	Main Bearing, Plain
(6)	**FP-AR49247**	Main Bearing, Plain
(6)	**FP-R30939**	Piston Pin Bushing
(1)	**FP-AR77747**	Thrust Washer Set
(4)	**FP-R46903**	Camshaft Bearing
(1)	**FP-R26115**	Camshaft Plug
(1)	**FP-AR53626**	Complete Overhaul Gasket Set
(12)	**FP-R66452**	Connecting Rod Bolt
(1)	**FP-SK49025**	Oil Seal Kit
	FP-404DLIFK	
(6)	**FP-RE23160**	Cylinder Kit Complete
(12)	**FP-R66452**	Connecting Rod Bolt
(6)	**FP-AR45723**	Connecting Rod Bearing Pair
(6)	**FP-AR46396**	Connecting Rod Bearing Pair
(6)	**FP-AR46397**	Connecting Rod Bearing Pair
(6)	**FP-AR46398**	Connecting Rod Bearing Pair
(1)	**FP-AR77748**	Main Bearing, Flanged
(1)	**FP-AR77750**	Main Bearing, Flanged
(1)	**FP-AR77751**	Main Bearing, Flanged
(6)	**FP-AR74814**	Main Bearing, Plain
(6)	**FP-AR74816**	Main Bearing, Plain
(6)	**FP-AR74817**	Main Bearing, Plain
(6)	**FP-AR74818**	Main Bearing, Plain
(1)	**FP-AR77747**	Thrust Washer Set
(1)	**FP-PG404DLS**	In-Frame Gasket Set
	FP-404DLOHK	
(6)	**FP-RE23160**	Cylinder Kit Complete
(6)	**FP-AR45723**	Connecting Rod Bearing Pair
(6)	**FP-AR46396**	Connecting Rod Bearing Pair
(6)	**FP-AR46397**	Connecting Rod Bearing Pair
(6)	**FP-AR46398**	Connecting Rod Bearing Pair
(1)	**FP-AR77748**	Main Bearing, Flanged
(1)	**FP-AR77750**	Main Bearing, Flanged
(1)	**FP-AR77751**	Main Bearing, Flanged
(6)	**FP-AR74814**	Main Bearing, Plain
(6)	**FP-AR74816**	Main Bearing, Plain
(6)	**FP-AR74817**	Main Bearing, Plain
(6)	**FP-AR74818**	Main Bearing, Plain
(6)	**FP-R30939**	Piston Pin Bushing
(1)	**FP-AR77747**	Thrust Washer Set
(4)	**FP-R46903**	Camshaft Bearing
(1)	**FP-R26115**	Camshaft Plug
(1)	**FP-AR63938**	Complete Overhaul Gasket Set
(12)	**FP-R66452**	Connecting Rod Bolt
(1)	**FP-SK49025**	Oil Seal Kit
	FP-404DMIFK	
(6)	**FP-RE23165**	Cylinder Kit Complete
(12)	**FP-R66452**	Connecting Rod Bolt
(6)	**FP-AR45723**	Connecting Rod Bearing Pair
(6)	**FP-AR46396**	Connecting Rod Bearing Pair
(6)	**FP-AR46397**	Connecting Rod Bearing Pair
(6)	**FP-AR46398**	Connecting Rod Bearing Pair
(1)	**FP-AR77748**	Main Bearing, Flanged
(1)	**FP-AR77750**	Main Bearing, Flanged
(1)	**FP-AR77751**	Main Bearing, Flanged

(cont'd. next column)

Qty.	Part No.	Description
	FP-404DMIFK (cont'd.)	
(6)	**FP-AR74814**	Main Bearing, Plain
(6)	**FP-AR74816**	Main Bearing, Plain
(6)	**FP-AR74817**	Main Bearing, Plain
(6)	**FP-AR74818**	Main Bearing, Plain
(1)	**FP-AR77747**	Thrust Washer Set
(1)	**FP-PG404DMS**	In-Frame Gasket Set
	FP-404DMOHK	
(6)	**FP-RE23165**	Cylinder Kit Complete
(6)	**FP-AR45723**	Connecting Rod Bearing Pair
(6)	**FP-AR46396**	Connecting Rod Bearing Pair
(6)	**FP-AR46397**	Connecting Rod Bearing Pair
(6)	**FP-AR46398**	Connecting Rod Bearing Pair
(1)	**FP-AR77748**	Main Bearing, Flanged
(1)	**FP-AR77750**	Main Bearing, Flanged
(1)	**FP-AR77751**	Main Bearing, Flanged
(6)	**FP-AR74814**	Main Bearing, Plain
(6)	**FP-AR74816**	Main Bearing, Plain
(6)	**FP-AR74817**	Main Bearing, Plain
(6)	**FP-AR74818**	Main Bearing, Plain
(6)	**FP-R30939**	Piston Pin Bushing
(1)	**FP-AR77747**	Thrust Washer Set
(4)	**FP-R46903**	Camshaft Bearing
(1)	**FP-R26115**	Camshaft Plug
(1)	**FP-AR53631**	Complete Overhaul Gasket Set
(12)	**FP-R66452**	Connecting Rod Bolt
(1)	**FP-SK49025**	Oil Seal Kit
	FP-404DRBIFK	
(6)	**FP-RE23170**	Cylinder Kit Complete
(12)	**FP-R66452**	Connecting Rod Bolt
(6)	**FP-AR45723**	Connecting Rod Bearing Pair
(6)	**FP-AR46396**	Connecting Rod Bearing Pair
(6)	**FP-AR46397**	Connecting Rod Bearing Pair
(6)	**FP-AR46398**	Connecting Rod Bearing Pair
(1)	**FP-AR77748**	Main Bearing, Flanged
(1)	**FP-AR77750**	Main Bearing, Flanged
(1)	**FP-AR77751**	Main Bearing, Flanged
(6)	**FP-AR74814**	Main Bearing, Plain
(6)	**FP-AR74816**	Main Bearing, Plain
(6)	**FP-AR74817**	Main Bearing, Plain
(6)	**FP-AR74818**	Main Bearing, Plain
(1)	**FP-AR77747**	Thrust Washer Set
(1)	**FP-PG404DES**	In-Frame Gasket Set
	FP-404DRBOHK	
(6)	**FP-RE23170**	Cylinder Kit Complete
(6)	**FP-AR45723**	Connecting Rod Bearing Pair
(6)	**FP-AR46396**	Connecting Rod Bearing Pair
(6)	**FP-AR46397**	Connecting Rod Bearing Pair
(6)	**FP-AR46398**	Connecting Rod Bearing Pair
(1)	**FP-AR77748**	Main Bearing, Flanged
(1)	**FP-AR77750**	Main Bearing, Flanged
(1)	**FP-AR77751**	Main Bearing, Flanged
(6)	**FP-AR74814**	Main Bearing, Plain
(6)	**FP-AR74816**	Main Bearing, Plain
(6)	**FP-AR74817**	Main Bearing, Plain
(6)	**FP-AR74818**	Main Bearing, Plain
(6)	**FP-R30939**	Piston Pin Bushing
(1)	**FP-AR77747**	Thrust Washer Set
(4)	**FP-R46903**	Camshaft Bearing
(1)	**FP-R26126**	Camshaft Plug
(1)	**FP-AR53626**	Complete Overhaul Gasket Set
(12)	**FP-R66452**	Connecting Rod Bolt
(1)	**FP-SK49025**	Oil Seal Kit
	FP-404TAEIFK	
(6)	**FP-AR51798**	Cylinder Kit Complete
(12)	**FP-R66452**	Connecting Rod Bolt

(cont'd. next page)

Qty.	Part No.	Description
	FP-404TAEIFK (cont'd.)	
(6)	FP-AR45723	Connecting Rod Bearing Pair
(6)	FP-AR46396	Connecting Rod Bearing Pair
(6)	FP-AR46397	Connecting Rod Bearing Pair
(6)	FP-AR46398	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged
(6)	FP-AR74814	Main Bearing, Plain
(6)	FP-AR74816	Main Bearing, Plain
(6)	FP-AR74817	Main Bearing, Plain
(6)	FP-AR74818	Main Bearing, Plain
(1)	FP-AR77747	Thrust Washer Set
(1)	FP-PG404TAS	In-Frame Gasket Set
	FP-404TAEOHK	
(6)	FP-AR51798	Cylinder Kit Complete
(6)	FP-AR45723	Connecting Rod Bearing Pair
(6)	FP-AR46396	Connecting Rod Bearing Pair
(6)	FP-AR46397	Connecting Rod Bearing Pair
(6)	FP-AR46398	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged
(6)	FP-AR74814	Main Bearing, Plain
(6)	FP-AR74816	Main Bearing, Plain
(6)	FP-AR74817	Main Bearing, Plain
(6)	FP-AR74818	Main Bearing, Plain
(6)	FP-R42173	Piston Pin Bushing
(1)	FP-AR77747	Thrust Washer Set
(4)	FP-R46903	Camshaft Bearing
(1)	FP-R26115	Camshaft Plug
(1)	FP-AR53094	Complete Overhaul Gasket Set
(12)	FP-R66452	Connecting Rod Bolt
(1)	FP-SK49025	Oil Seal Kit
	FP-404TALIFK	
(6)	FP-AR63272	Cylinder Kit Complete
(12)	FP-R66452	Connecting Rod Bolt
(6)	FP-AR45723	Connecting Rod Bearing Pair
(6)	FP-AR46396	Connecting Rod Bearing Pair
(6)	FP-AR46397	Connecting Rod Bearing Pair
(6)	FP-AR46398	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged
(6)	FP-AR74814	Main Bearing, Plain
(6)	FP-AR74816	Main Bearing, Plain
(6)	FP-AR74817	Main Bearing, Plain
(6)	FP-AR74818	Main Bearing, Plain
(1)	FP-AR77747	Thrust Washer Set
(1)	FP-PG404TAS	In-Frame Gasket Set
	FP-404TALOHK	
(6)	FP-AR63272	Cylinder Kit Complete
(6)	FP-AR45723	Connecting Rod Bearing Pair
(6)	FP-AR46396	Connecting Rod Bearing Pair
(6)	FP-AR46397	Connecting Rod Bearing Pair
(6)	FP-AR46398	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged
(1)	FP-AR77752	Main Bearing, Flanged
(6)	FP-AR74814	Main Bearing, Plain
(6)	FP-AR74816	Main Bearing, Plain
(6)	FP-AR74817	Main Bearing, Plain
(6)	FP-AR74818	Main Bearing, Plain
(6)	FP-R42173	Piston Pin Bushing

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Qty.	Part No.	Description
	FP-404TALOHK (cont'd.)	
(1)	FP-AR77747	Thrust Washer Set
(4)	FP-R46903	Camshaft Bearing
(1)	FP-R26115	Camshaft Plug
(1)	FP-AR63269	Complete Overhaul Gasket Set
(12)	FP-R66452	Connecting Rod Bolt
(1)	FP-SK49025	Oil Seal Kit
	FP-4045DIFK	
(4)	FP-RE28966	Cylinder Kit Complete
(8)	FP-R74195	Connecting Rod Bolt
(4)	FP-AR97517	Connecting Rod Bearing Pair
(4)	FP-AR97653	Connecting Rod Bearing Pair
(4)	FP-AR97654	Connecting Rod Bearing Pair
(4)	FP-AR97655	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG219S	In-Frame Gasket Set
	FP-4045DOHK	
(4)	FP-RE28966	Cylinder Kit Complete
(4)	FP-AR97517	Connecting Rod Bearing Pair
(4)	FP-AR97653	Connecting Rod Bearing Pair
(4)	FP-AR97654	Connecting Rod Bearing Pair
(4)	FP-AR97655	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(4)	FP-R57451	Piston Pin Bushing
(6)	FP-R57160	Balance Shaft Bearing
(1)	FP-R119874	Camshaft Bearing
(1)	FP-RE37715	Complete Overhaul Gasket Set
(8)	FP-R74195	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
	FP-4045TIFK	
(4)	FP-RE53073	Cylinder Kit Complete
(8)	FP-R74195	Connecting Rod Bolt
(4)	FP-AR97517	Connecting Rod Bearing Pair
(4)	FP-AR97653	Connecting Rod Bearing Pair
(4)	FP-AR97654	Connecting Rod Bearing Pair
(4)	FP-AR97655	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG219S	In-Frame Gasket Set
	FP-4045TOHK	
(4)	FP-RE53073	Cylinder Kit Complete
(4)	FP-AR97517	Connecting Rod Bearing Pair
(4)	FP-AR97653	Connecting Rod Bearing Pair
(4)	FP-AR97654	Connecting Rod Bearing Pair

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Qty.	Part No.	Description
	FP-4045TOHK (cont'd.)	
(4)	FP-AR97655	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(4)	FP-RE27352	Main Bearing, Plain
(4)	FP-RE27353	Main Bearing, Plain
(4)	FP-RE27360	Main Bearing, Plain
(4)	FP-RE27368	Main Bearing, Plain
(4)	FP-R57451	Piston Pin Bushing
(6)	FP-R57160	Balance Shaft Bearing
(1)	FP-R119874	Camshaft Bearing
(1)	FP-RE37715	Complete Overhaul Gasket Set
(8)	FP-R74195	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
	FP-414DIFK	
(6)	FP-RE19833	Cylinder Kit Complete
(12)	FP-R74195	Connecting Rod Bolt
(6)	FP-AR97517	Connecting Rod Bearing Pair
(6)	FP-AR97653	Connecting Rod Bearing Pair
(6)	FP-AR97654	Connecting Rod Bearing Pair
(6)	FP-AR97655	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(6)	FP-RE27352	Main Bearing, Plain
(6)	FP-RE27353	Main Bearing, Plain
(6)	FP-RE27360	Main Bearing, Plain
(6)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG359S	In-Frame Gasket Set
	FP-414DOHK	
(6)	FP-RE19833	Cylinder Kit Complete
(6)	FP-AR97517	Connecting Rod Bearing Pair
(6)	FP-AR97653	Connecting Rod Bearing Pair
(6)	FP-AR97654	Connecting Rod Bearing Pair
(6)	FP-AR97655	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(6)	FP-RE27352	Main Bearing, Plain
(6)	FP-RE27353	Main Bearing, Plain
(6)	FP-RE27360	Main Bearing, Plain
(6)	FP-RE27368	Main Bearing, Plain
(6)	FP-R57451	Piston Pin Bushing
(1)	FP-RE38555	Complete Overhaul Gasket Set
(12)	FP-R74195	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
	FP-414TIFK	
(6)	FP-RE19832	Cylinder Kit Complete
(12)	FP-R74195	Connecting Rod Bolt
(6)	FP-AR97517	Connecting Rod Bearing Pair
(6)	FP-AR97653	Connecting Rod Bearing Pair
(6)	FP-AR97654	Connecting Rod Bearing Pair
(6)	FP-AR97655	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(6)	FP-RE27352	Main Bearing, Plain
(6)	FP-RE27353	Main Bearing, Plain
(6)	FP-RE27360	Main Bearing, Plain
(6)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG359S	In-Frame Gasket Set

Qty.	Part No.	Description
	FP-414TOHK	
(6)	FP-RE19832	Cylinder Kit Complete
(6)	FP-AR97517	Connecting Rod Bearing Pair
(6)	FP-AR97653	Connecting Rod Bearing Pair
(6)	FP-AR97654	Connecting Rod Bearing Pair
(6)	FP-AR97655	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(6)	FP-RE27352	Main Bearing, Plain
(6)	FP-RE27353	Main Bearing, Plain
(6)	FP-RE27360	Main Bearing, Plain
(6)	FP-RE27368	Main Bearing, Plain
(6)	FP-R57451	Piston Pin Bushing
(1)	FP-RE38555	Complete Overhaul Gasket Set
(12)	FP-R74195	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit
	FP-466AHPIFK	
(6)	FP-AR100960	Cylinder Kit Complete
(12)	FP-R66452	Connecting Rod Bolt
(6)	FP-AR73277	Connecting Rod Bearing Pair
(6)	FP-AR73279	Connecting Rod Bearing Pair
(6)	FP-AR73280	Connecting Rod Bearing Pair
(6)	FP-AR73281	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged
(6)	FP-AR74814	Main Bearing, Plain
(6)	FP-AR74816	Main Bearing, Plain
(6)	FP-AR74817	Main Bearing, Plain
(6)	FP-AR74818	Main Bearing, Plain
(1)	FP-AR77747	Thrust Washer Set
(1)	FP-PG466TAS	In-Frame Gasket Set
	FP-466AHPOHK	
(6)	FP-AR100960	Cylinder Kit Complete
(6)	FP-AR73277	Connecting Rod Bearing Pair
(6)	FP-AR73279	Connecting Rod Bearing Pair
(6)	FP-AR73280	Connecting Rod Bearing Pair
(6)	FP-AR73281	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged
(6)	FP-AR74814	Main Bearing, Plain
(6)	FP-AR74816	Main Bearing, Plain
(6)	FP-AR74817	Main Bearing, Plain
(6)	FP-AR74818	Main Bearing, Plain
(6)	FP-R74008	Piston Pin Bushing
(1)	FP-AR77747	Thrust Washer Set
(4)	FP-R46903	Camshaft Bearing
(1)	FP-R26115	Camshaft Plug
(1)	FP-AR98845	Complete Overhaul Gasket Set
(12)	FP-R66452	Connecting Rod Bolt
(1)	FP-SK49025	Oil Seal Kit
	FP-466DIFK	
(6)	FP-AR83610	Cylinder Kit Complete
(12)	FP-R66452	Connecting Rod Bolt
(6)	FP-AR45723	Connecting Rod Bearing Pair
(6)	FP-AR46396	Connecting Rod Bearing Pair
(6)	FP-AR46397	Connecting Rod Bearing Pair
(6)	FP-AR46398	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged

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Engine Kit Bill of Material

FP-466DIFK (cont'd.)

Qty.	Part No.	Description
(6)	FP-AR74814	Main Bearing, Plain
(6)	FP-AR74816	Main Bearing, Plain
(6)	FP-AR74817	Main Bearing, Plain
(6)	FP-AR74818	Main Bearing, Plain
(1)	FP-AR77747	Thrust Washer Set
(1)	FP-PG466DS	In-Frame Gasket Set

FP-466DOHK

Qty.	Part No.	Description
(6)	FP-AR83610	Cylinder Kit Complete
(6)	FP-AR45723	Connecting Rod Bearing Pair
(6)	FP-AR46396	Connecting Rod Bearing Pair
(6)	FP-AR46397	Connecting Rod Bearing Pair
(6)	FP-AR46398	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged
(6)	FP-AR74814	Main Bearing, Plain
(6)	FP-AR74816	Main Bearing, Plain
(6)	FP-AR74817	Main Bearing, Plain
(6)	FP-AR74818	Main Bearing, Plain
(6)	FP-R42173	Piston Pin Bushing
(1)	FP-AR77747	Thrust Washer Set
(4)	FP-R46903	Camshaft Bearing
(1)	FP-R26115	Camshaft Plug
(1)	FP-AR100638	Complete Overhaul Gasket Set
(12)	FP-R66452	Connecting Rod Bolt
(1)	FP-SK49025	Oil Seal Kit

FP-466TAEIFK

Qty.	Part No.	Description
(6)	FP-AR72079	Cylinder Kit Complete
(12)	FP-R66452	Connecting Rod Bolt
(6)	FP-AR73277	Connecting Rod Bearing Pair
(6)	FP-AR73279	Connecting Rod Bearing Pair
(6)	FP-AR73280	Connecting Rod Bearing Pair
(6)	FP-AR73281	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged
(6)	FP-AR74814	Main Bearing, Plain
(6)	FP-AR74816	Main Bearing, Plain
(6)	FP-AR74817	Main Bearing, Plain
(6)	FP-AR74818	Main Bearing, Plain
(1)	FP-AR77747	Thrust Washer Set
(1)	FP-PG466TAS	In-Frame Gasket Set

FP-466TAEOHK

Qty.	Part No.	Description
(6)	FP-AR72079	Cylinder Kit Complete
(6)	FP-AR73277	Connecting Rod Bearing Pair
(6)	FP-AR73279	Connecting Rod Bearing Pair
(6)	FP-AR73280	Connecting Rod Bearing Pair
(6)	FP-AR73281	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged
(6)	FP-AR74814	Main Bearing, Plain
(6)	FP-AR74816	Main Bearing, Plain
(6)	FP-AR74817	Main Bearing, Plain
(6)	FP-AR74818	Main Bearing, Plain
(6)	FP-R60724	Piston Pin Bushing
(1)	FP-AR77747	Thrust Washer Set
(4)	FP-R46903	Camshaft Bearing
(1)	FP-R26115	Camshaft Plug
(1)	FP-AR98845	Complete Overhaul Gasket Set
(12)	FP-R66452	Connecting Rod Bolt
(1)	FP-SK49025	Oil Seal Kit

FP-466TALIFK

Qty.	Part No.	Description
(6)	FP-AR100646	Cylinder Kit Complete
(12)	FP-R66452	Connecting Rod Bolt

(cont'd. next column)

FP-466TALIFK (cont'd.)

Qty.	Part No.	Description
(6)	FP-AR73277	Connecting Rod Bearing Pair
(6)	FP-AR73279	Connecting Rod Bearing Pair
(6)	FP-AR73280	Connecting Rod Bearing Pair
(6)	FP-AR73281	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged
(6)	FP-AR74814	Main Bearing, Plain
(6)	FP-AR74816	Main Bearing, Plain
(6)	FP-AR74817	Main Bearing, Plain
(6)	FP-AR74818	Main Bearing, Plain
(1)	FP-AR77747	Thrust Washer Set
(1)	FP-PG466TAS	In-Frame Gasket Set

FP-466TALOHK

Qty.	Part No.	Description
(6)	FP-AR100646	Cylinder Kit Complete
(6)	FP-AR73277	Connecting Rod Bearing Pair
(6)	FP-AR73279	Connecting Rod Bearing Pair
(6)	FP-AR73280	Connecting Rod Bearing Pair
(6)	FP-AR73281	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged
(6)	FP-AR74814	Main Bearing, Plain
(6)	FP-AR74816	Main Bearing, Plain
(6)	FP-AR74817	Main Bearing, Plain
(6)	FP-AR74818	Main Bearing, Plain
(6)	FP-R74008	Piston Pin Bushing
(1)	FP-AR77747	Thrust Washer Set
(4)	FP-R46903	Camshaft Bearing
(1)	FP-R26115	Camshaft Plug
(1)	FP-AR98845	Complete Overhaul Gasket Set
(12)	FP-R66452	Connecting Rod Bolt
(1)	FP-SK49025	Oil Seal Kit

FP-471NA

Qty.	Part No.	Description
(1)	FP-5150116	Oil Pan Gasket
(4)	FP-23505305	Cylinder Kit Complete
(4)	FP-23505306	Cylinder Kit Complete
(4)	FP-2350530630	Cylinder Kit Complete
(4)	FP-235053065	Cylinder Kit Complete
(4)	FP-5149261	Cylinder Kit Complete
(4)	FP-5149263	Cylinder Kit Complete
(4)	FP-5149264	Cylinder Kit Complete
(4)	FP-23511129	Connecting Rod Bearing Pair
(4)	FP-23511131	Connecting Rod Bearing Pair
(4)	FP-23511133	Connecting Rod Bearing Pair
(4)	FP-23511135	Connecting Rod Bearing Pair
(4)	FP-23511137	Connecting Rod Bearing Pair
(5)	FP-5192874	Main Bearing, Plain
(5)	FP-5192875	Main Bearing, Plain
(5)	FP-5192876	Main Bearing, Plain
(5)	FP-5192877	Main Bearing, Plain
(5)	FP-5192878	Main Bearing, Plain
(4)	FP-5159353	Thrust Washer
(1)	FP-5198676	Head Gasket Set
(1)	FP-5104081	Valve Cover Gasket
(1)	FP-5143406	Valve Cover Gasket

FP-471NAOH

Qty.	Part No.	Description
(4)	FP-23505305	Cylinder Kit Complete
(4)	FP-23505306	Cylinder Kit Complete
(4)	FP-2350530630	Cylinder Kit Complete
(4)	FP-235053065	Cylinder Kit Complete
(4)	FP-5149261	Cylinder Kit Complete
(4)	FP-5149263	Cylinder Kit Complete
(4)	FP-5149264	Cylinder Kit Complete
(4)	FP-23511129	Connecting Rod Bearing Pair

(cont'd. next column)

FP-471NAOH (cont'd.)

Qty.	Part No.	Description
(4)	FP-23511131	Connecting Rod Bearing Pair
(4)	FP-23511133	Connecting Rod Bearing Pair
(4)	FP-23511135	Connecting Rod Bearing Pair
(4)	FP-23511137	Connecting Rod Bearing Pair
(5)	FP-5192874	Main Bearing, Plain
(5)	FP-5192875	Main Bearing, Plain
(5)	FP-5192876	Main Bearing, Plain
(5)	FP-5192877	Main Bearing, Plain
(5)	FP-5192878	Main Bearing, Plain
(4)	FP-5159353	Thrust Washer
(1)	FP-23512675	Complete Overhaul Gasket Set
(1)	FP-5104081	Valve Cover Gasket
(1)	FP-5143406	Valve Cover Gasket

FP-471XH

Qty.	Part No.	Description
(1)	FP-5150116	Oil Pan Gasket
(4)	FP-20019	Cylinder Kit Complete
(4)	FP-20020	Cylinder Kit Complete
(4)	FP-20021	Cylinder Kit Complete
(4)	FP-20022	Cylinder Kit Complete
(4)	FP-23522473	Cylinder Kit Complete
(4)	FP-235224735	Cylinder Kit Complete
(4)	FP-23522477	Cylinder Kit Complete
(4)	FP-23522479	Cylinder Kit Complete
(4)	FP-23522481	Cylinder Kit Complete
(4)	FP-23522483	Cylinder Kit Complete
(4)	FP-23522485	Cylinder Kit Complete
(4)	FP-2352248530	Cylinder Kit Complete
(4)	FP-235224855	Cylinder Kit Complete
(4)	FP-23522489	Cylinder Kit Complete
(4)	FP-23522491	Cylinder Kit Complete
(4)	FP-23522493	Cylinder Kit Complete
(4)	FP-23522507	Cylinder Kit Complete
(4)	FP-235225075	Cylinder Kit Complete
(4)	FP-23522509	Cylinder Kit Complete
(4)	FP-23522511	Cylinder Kit Complete
(4)	FP-23522513	Cylinder Kit Complete
(4)	FP-23522515	Cylinder Kit Complete
(4)	FP-23522521	Cylinder Kit Complete
(4)	FP-23522525	Cylinder Kit Complete
(4)	FP-23522946	Cylinder Kit Complete
(4)	FP-23522947	Cylinder Kit Complete
(4)	FP-23522948	Cylinder Kit Complete
(4)	FP-23522949	Cylinder Kit Complete
(4)	FP-2352294930	Cylinder Kit Complete
(4)	FP-235229495	Cylinder Kit Complete
(4)	FP-23522950	Cylinder Kit Complete
(4)	FP-23522951	Cylinder Kit Complete
(4)	FP-23522952	Cylinder Kit Complete
(4)	FP-23522953	Cylinder Kit Complete
(4)	FP-23511129	Connecting Rod Bearing Pair
(4)	FP-23511131	Connecting Rod Bearing Pair
(4)	FP-23511133	Connecting Rod Bearing Pair
(4)	FP-23511135	Connecting Rod Bearing Pair
(4)	FP-23511137	Connecting Rod Bearing Pair
(5)	FP-5192874	Main Bearing, Plain
(5)	FP-5192875	Main Bearing, Plain
(5)	FP-5192876	Main Bearing, Plain
(5)	FP-5192877	Main Bearing, Plain
(5)	FP-5192878	Main Bearing, Plain
(4)	FP-5159353	Thrust Washer
(1)	FP-5198676	Head Gasket Set
(1)	FP-5104081	Valve Cover Gasket
(1)	FP-5143406	Valve Cover Gasket

FP-471XHOH

Qty.	Part No.	Description
(4)	FP-20019	Cylinder Kit Complete
(4)	FP-20020	Cylinder Kit Complete
(4)	FP-20021	Cylinder Kit Complete
(4)	FP-20022	Cylinder Kit Complete
(4)	FP-23522473	Cylinder Kit Complete
(4)	FP-235224735	Cylinder Kit Complete
(4)	FP-23522477	Cylinder Kit Complete

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FP-471XHOH (cont'd.)

Qty.	Part No.	Description
(4)	FP-23522479	Cylinder Kit Complete
(4)	FP-23522481	Cylinder Kit Complete
(4)	FP-23522483	Cylinder Kit Complete
(4)	FP-23522485	Cylinder Kit Complete
(4)	FP-2352248530	Cylinder Kit Complete
(4)	FP-235224855	Cylinder Kit Complete
(4)	FP-23522489	Cylinder Kit Complete
(4)	FP-23522491	Cylinder Kit Complete
(4)	FP-23522493	Cylinder Kit Complete
(4)	FP-23522507	Cylinder Kit Complete
(4)	FP-235225075	Cylinder Kit Complete
(4)	FP-23522509	Cylinder Kit Complete
(4)	FP-23522511	Cylinder Kit Complete
(4)	FP-23522513	Cylinder Kit Complete
(4)	FP-23522515	Cylinder Kit Complete
(4)	FP-23522521	Cylinder Kit Complete
(4)	FP-23522525	Cylinder Kit Complete
(4)	FP-23522946	Cylinder Kit Complete
(4)	FP-23522947	Cylinder Kit Complete
(4)	FP-23522948	Cylinder Kit Complete
(4)	FP-23522949	Cylinder Kit Complete
(4)	FP-2352294930	Cylinder Kit Complete
(4)	FP-235229495	Cylinder Kit Complete
(4)	FP-23522950	Cylinder Kit Complete
(4)	FP-23522951	Cylinder Kit Complete
(4)	FP-23522952	Cylinder Kit Complete
(4)	FP-23522953	Cylinder Kit Complete
(4)	FP-23511129	Connecting Rod Bearing Pair
(4)	FP-23511131	Connecting Rod Bearing Pair
(4)	FP-23511133	Connecting Rod Bearing Pair
(4)	FP-23511135	Connecting Rod Bearing Pair
(4)	FP-23511137	Connecting Rod Bearing Pair
(5)	FP-5192874	Main Bearing, Plain
(5)	FP-5192875	Main Bearing, Plain
(5)	FP-5192876	Main Bearing, Plain
(5)	FP-5192877	Main Bearing, Plain
(5)	FP-5192878	Main Bearing, Plain
(4)	FP-5159353	Thrust Washer
(1)	FP-23512675	Complete Overhaul Gasket Set
(1)	FP-5104081	Valve Cover Gasket
(1)	FP-5143406	Valve Cover Gasket

FP-4712V

Qty.	Part No.	Description
(1)	FP-5150116	Oil Pan Gasket
(4)	FP-23505308	Cylinder Kit Complete
(4)	FP-23505309	Cylinder Kit Complete
(4)	FP-235053091	Cylinder Kit Complete
(4)	FP-2350530910	Cylinder Kit Complete
(4)	FP-2350530920	Cylinder Kit Complete
(4)	FP-2350530930	Cylinder Kit Complete
(4)	FP-235053095	Cylinder Kit Complete
(4)	FP-23511129	Connecting Rod Bearing Pair
(4)	FP-23511131	Connecting Rod Bearing Pair
(4)	FP-23511133	Connecting Rod Bearing Pair
(4)	FP-23511135	Connecting Rod Bearing Pair
(4)	FP-23511137	Connecting Rod Bearing Pair
(5)	FP-5192874	Main Bearing, Plain
(5)	FP-5192875	Main Bearing, Plain
(5)	FP-5192876	Main Bearing, Plain
(5)	FP-5192877	Main Bearing, Plain
(5)	FP-5192878	Main Bearing, Plain
(4)	FP-5159353	Thrust Washer
(1)	FP-5192925	Head Gasket Set
(1)	FP-5198676	Head Gasket Set
(1)	FP-5104081	Valve Cover Gasket
(1)	FP-5143406	Valve Cover Gasket

FP-4712VOH

Qty.	Part No.	Description
(4)	FP-23505308	Cylinder Kit Complete
(4)	FP-23505309	Cylinder Kit Complete
(4)	FP-235053091	Cylinder Kit Complete
(4)	FP-2350530910	Cylinder Kit Complete

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FP-4712VOH (cont'd.)

Qty.	Part No.	Description
(4)	FP-2350530920	Cylinder Kit Complete
(4)	FP-2350530930	Cylinder Kit Complete
(4)	FP-235053095	Cylinder Kit Complete
(4)	FP-23511129	Connecting Rod Bearing Pair
(4)	FP-23511131	Connecting Rod Bearing Pair
(4)	FP-23511133	Connecting Rod Bearing Pair
(4)	FP-23511135	Connecting Rod Bearing Pair
(4)	FP-23511137	Connecting Rod Bearing Pair
(5)	FP-5192874	Main Bearing, Plain
(5)	FP-5192875	Main Bearing, Plain
(5)	FP-5192876	Main Bearing, Plain
(5)	FP-5192877	Main Bearing, Plain
(5)	FP-5192878	Main Bearing, Plain
(4)	FP-5159353	Thrust Washer
(1)	FP-23512675	Complete Overhaul Gasket Set
(1)	FP-5192922	Complete Overhaul Gasket Set
(1)	FP-5104081	Valve Cover Gasket
(1)	FP-5143406	Valve Cover Gasket

FP-531AIFK

Qty.	Part No.	Description
(6)	FP-CK32278350	Cylinder Kit Complete
(12)	FP-R66453	Connecting Rod Bolt
(6)	FP-AR53020	Connecting Rod Bearing Pair
(6)	FP-AR57208	Connecting Rod Bearing Pair
(6)	FP-AR57209	Connecting Rod Bearing Pair
(6)	FP-AR57210	Connecting Rod Bearing Pair
(1)	FP-AR101267	Main Bearing, Flanged
(1)	FP-AR104564	Main Bearing, Flanged
(1)	FP-AR104565	Main Bearing, Flanged
(1)	FP-AR104566	Main Bearing, Flanged
(6)	FP-AR101266	Main Bearing, Plain
(6)	FP-AR104568	Main Bearing, Plain
(6)	FP-AR104569	Main Bearing, Plain
(6)	FP-AR104570	Main Bearing, Plain
(1)	FP-AR89622	Thrust Washer Set
(1)	FP-AR89971	Thrust Washer Set
(1)	FP-PG531AS	In-Frame Gasket Set

FP-531AOHK

Qty.	Part No.	Description
(6)	FP-CK32278350	Cylinder Kit Complete
(6)	FP-AR53020	Connecting Rod Bearing Pair
(6)	FP-AR57208	Connecting Rod Bearing Pair
(6)	FP-AR57209	Connecting Rod Bearing Pair
(6)	FP-AR57210	Connecting Rod Bearing Pair
(1)	FP-AR101267	Main Bearing, Flanged
(1)	FP-AR104564	Main Bearing, Flanged
(1)	FP-AR104565	Main Bearing, Flanged
(1)	FP-AR104566	Main Bearing, Flanged
(6)	FP-AR101266	Main Bearing, Plain
(6)	FP-AR104568	Main Bearing, Plain
(6)	FP-AR104569	Main Bearing, Plain
(6)	FP-AR104570	Main Bearing, Plain
(6)	FP-R76783	Piston Pin Bushing
(1)	FP-AR89622	Thrust Washer Set
(1)	FP-AR89971	Thrust Washer Set
(4)	FP-R46903	Camshaft Bearing
(1)	FP-R26115	Camshaft Plug
(1)	FP-RE17046	Complete Overhaul Gasket Set
(12)	FP-R66453	Connecting Rod Bolt
(1)	FP-SK13310	Oil Seal Kit

FP-531DEIFK

Qty.	Part No.	Description
(6)	FP-CK45065124	Cylinder Kit Complete
(12)	FP-R66453	Connecting Rod Bolt
(6)	FP-AR53020	Connecting Rod Bearing Pair
(6)	FP-AR57208	Connecting Rod Bearing Pair

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FP-531DEIFK (cont'd.)

Qty.	Part No.	Description
(6)	FP-AR57209	Connecting Rod Bearing Pair
(6)	FP-AR57210	Connecting Rod Bearing Pair
(1)	FP-AR101267	Main Bearing, Flanged
(1)	FP-AR104564	Main Bearing, Flanged
(1)	FP-AR104565	Main Bearing, Flanged
(1)	FP-AR104566	Main Bearing, Flanged
(6)	FP-AR101266	Main Bearing, Plain
(6)	FP-AR104568	Main Bearing, Plain
(6)	FP-AR104569	Main Bearing, Plain
(6)	FP-AR104570	Main Bearing, Plain
(1)	FP-AR89622	Thrust Washer Set
(1)	FP-AR89971	Thrust Washer Set
(1)	FP-PG531DS	In-Frame Gasket Set

FP-531DEOHK

Qty.	Part No.	Description
(6)	FP-CK45065124	Cylinder Kit Complete
(6)	FP-AR53020	Connecting Rod Bearing Pair
(6)	FP-AR57208	Connecting Rod Bearing Pair
(6)	FP-AR57209	Connecting Rod Bearing Pair
(6)	FP-AR57210	Connecting Rod Bearing Pair
(1)	FP-AR101267	Main Bearing, Flanged
(1)	FP-AR104564	Main Bearing, Flanged
(1)	FP-AR104565	Main Bearing, Flanged
(1)	FP-AR104566	Main Bearing, Flanged
(6)	FP-AR101266	Main Bearing, Plain
(6)	FP-AR104568	Main Bearing, Plain
(6)	FP-AR104569	Main Bearing, Plain
(6)	FP-AR104570	Main Bearing, Plain
(6)	FP-R36328	Piston Pin Bushing
(1)	FP-AR89622	Thrust Washer Set
(1)	FP-AR89971	Thrust Washer Set
(4)	FP-R46903	Camshaft Bearing
(1)	FP-R26115	Camshaft Plug
(1)	FP-AR53614	Complete Overhaul Gasket Set
(12)	FP-R66453	Connecting Rod Bolt
(1)	FP-SK13310	Oil Seal Kit

FP-531DLIFK

Qty.	Part No.	Description
(6)	FP-CK65482366	Cylinder Kit Complete
(12)	FP-R66453	Connecting Rod Bolt
(6)	FP-AR53020	Connecting Rod Bearing Pair
(6)	FP-AR57208	Connecting Rod Bearing Pair
(6)	FP-AR57209	Connecting Rod Bearing Pair
(6)	FP-AR57210	Connecting Rod Bearing Pair
(1)	FP-AR101267	Main Bearing, Flanged
(1)	FP-AR104564	Main Bearing, Flanged
(1)	FP-AR104565	Main Bearing, Flanged
(1)	FP-AR104566	Main Bearing, Flanged
(6)	FP-AR101266	Main Bearing, Plain
(6)	FP-AR104568	Main Bearing, Plain
(6)	FP-AR104569	Main Bearing, Plain
(6)	FP-AR104570	Main Bearing, Plain
(1)	FP-AR89622	Thrust Washer Set
(1)	FP-AR89971	Thrust Washer Set
(1)	FP-PG531DS	In-Frame Gasket Set

FP-531DLOHK

Qty.	Part No.	Description
(6)	FP-CK65482366	Cylinder Kit Complete
(6)	FP-AR53020	Connecting Rod Bearing Pair
(6)	FP-AR57208	Connecting Rod Bearing Pair
(6)	FP-AR57209	Connecting Rod Bearing Pair
(6)	FP-AR57210	Connecting Rod Bearing Pair
(1)	FP-AR101267	Main Bearing, Flanged
(1)	FP-AR104564	Main Bearing, Flanged
(1)	FP-AR104565	Main Bearing, Flanged
(1)	FP-AR104566	Main Bearing, Flanged
(6)	FP-AR101266	Main Bearing, Plain
(6)	FP-AR104568	Main Bearing, Plain
(6)	FP-AR104569	Main Bearing, Plain

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FP-531DLOHK (cont'd.)

Qty.	Part No.	Description
(6)	FP-AR104570	Main Bearing, Plain
(6)	FP-R36328	Piston Pin Bushing
(1)	FP-AR89622	Thrust Washer Set
(1)	FP-AR89971	Thrust Washer Set
(4)	FP-R46903	Camshaft Bearing
(1)	FP-R26115	Camshaft Plug
(1)	FP-AR53614	Complete Overhaul Gasket Set
(12)	FP-R66453	Connecting Rod Bolt
(1)	FP-SK13310	Oil Seal Kit

FP-531TIFK

Qty.	Part No.	Description
(6)	FP-CK63478350	Cylinder Kit Complete
(12)	FP-R66453	Connecting Rod Bolt
(6)	FP-AR53020	Connecting Rod Bearing Pair
(6)	FP-AR57208	Connecting Rod Bearing Pair
(6)	FP-AR57209	Connecting Rod Bearing Pair
(6)	FP-AR57210	Connecting Rod Bearing Pair
(1)	FP-AR101267	Main Bearing, Flanged
(1)	FP-AR104564	Main Bearing, Flanged
(1)	FP-AR104565	Main Bearing, Flanged
(1)	FP-AR104566	Main Bearing, Flanged
(6)	FP-AR101266	Main Bearing, Plain
(6)	FP-AR104568	Main Bearing, Plain
(6)	FP-AR104569	Main Bearing, Plain
(6)	FP-AR104570	Main Bearing, Plain
(1)	FP-AR89622	Thrust Washer Set
(1)	FP-AR89971	Thrust Washer Set
(1)	FP-PG531TS	In-Frame Gasket Set

FP-531TOHK

Qty.	Part No.	Description
(6)	FP-CK63478350	Cylinder Kit Complete
(6)	FP-AR53020	Connecting Rod Bearing Pair
(6)	FP-AR57208	Connecting Rod Bearing Pair
(6)	FP-AR57209	Connecting Rod Bearing Pair
(6)	FP-AR57210	Connecting Rod Bearing Pair
(1)	FP-AR101267	Main Bearing, Flanged
(1)	FP-AR104564	Main Bearing, Flanged
(1)	FP-AR104565	Main Bearing, Flanged
(1)	FP-AR104566	Main Bearing, Flanged
(6)	FP-AR101266	Main Bearing, Plain
(6)	FP-AR104568	Main Bearing, Plain
(6)	FP-AR104569	Main Bearing, Plain
(6)	FP-AR104570	Main Bearing, Plain
(6)	FP-R76783	Piston Pin Bushing
(1)	FP-AR89622	Thrust Washer Set
(1)	FP-AR89971	Thrust Washer Set
(4)	FP-R46903	Camshaft Bearing
(1)	FP-R26115	Camshaft Plug
(1)	FP-RE17050	Complete Overhaul Gasket Set
(12)	FP-R66453	Connecting Rod Bolt
(1)	FP-SK13310	Oil Seal Kit

FP-6068DIFK

Qty.	Part No.	Description
(6)	FP-RE28966	Cylinder Kit Complete
(12)	FP-R74195	Connecting Rod Bolt
(6)	FP-AR97517	Connecting Rod Bearing Pair
(6)	FP-AR97653	Connecting Rod Bearing Pair
(6)	FP-AR97654	Connecting Rod Bearing Pair
(6)	FP-AR97655	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(6)	FP-RE27352	Main Bearing, Plain
(6)	FP-RE27353	Main Bearing, Plain
(6)	FP-RE27360	Main Bearing, Plain
(6)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG359S	In-Frame Gasket Set

FP-6068DOHK

Qty.	Part No.	Description
(6)	FP-RE28966	Cylinder Kit Complete
(6)	FP-AR97517	Connecting Rod Bearing Pair
(6)	FP-AR97653	Connecting Rod Bearing Pair
(6)	FP-AR97654	Connecting Rod Bearing Pair
(6)	FP-AR97655	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(6)	FP-RE27352	Main Bearing, Plain
(6)	FP-RE27353	Main Bearing, Plain
(6)	FP-RE27360	Main Bearing, Plain
(6)	FP-RE27368	Main Bearing, Plain
(6)	FP-R57451	Piston Pin Bushing
(1)	FP-R119874	Camshaft Bearing
(1)	FP-RE38555	Complete Overhaul Gasket Set
(12)	FP-R74195	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit

FP-6068TIFK

Qty.	Part No.	Description
(6)	FP-RE53073	Cylinder Kit Complete
(12)	FP-R74195	Connecting Rod Bolt
(6)	FP-AR97517	Connecting Rod Bearing Pair
(6)	FP-AR97653	Connecting Rod Bearing Pair
(6)	FP-AR97654	Connecting Rod Bearing Pair
(6)	FP-AR97655	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(6)	FP-RE27352	Main Bearing, Plain
(6)	FP-RE27353	Main Bearing, Plain
(6)	FP-RE27360	Main Bearing, Plain
(6)	FP-RE27368	Main Bearing, Plain
(1)	FP-PG359S	In-Frame Gasket Set

FP-6068TOHK

Qty.	Part No.	Description
(6)	FP-RE53073	Cylinder Kit Complete
(6)	FP-AR97517	Connecting Rod Bearing Pair
(6)	FP-AR97653	Connecting Rod Bearing Pair
(6)	FP-AR97654	Connecting Rod Bearing Pair
(6)	FP-AR97655	Connecting Rod Bearing Pair
(1)	FP-RE521350	Main Bearing, Flanged
(1)	FP-RE526754	Main Bearing, Flanged
(1)	FP-RE527235	Main Bearing, Flanged
(1)	FP-RE527236	Main Bearing, Flanged
(6)	FP-RE27352	Main Bearing, Plain
(6)	FP-RE27353	Main Bearing, Plain
(6)	FP-RE27360	Main Bearing, Plain
(6)	FP-RE27368	Main Bearing, Plain
(6)	FP-R57451	Piston Pin Bushing
(1)	FP-R119874	Camshaft Bearing
(1)	FP-RE38555	Complete Overhaul Gasket Set
(12)	FP-R74195	Connecting Rod Bolt
(1)	FP-SK67942	Oil Seal Kit

FP-6076EIFK

Qty.	Part No.	Description
(6)	FP-RE48739	Cylinder Kit Complete
(12)	FP-R66452	Connecting Rod Bolt
(6)	FP-AR73277	Connecting Rod Bearing Pair
(6)	FP-AR73279	Connecting Rod Bearing Pair
(6)	FP-AR73280	Connecting Rod Bearing Pair
(6)	FP-AR73281	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged

(cont'd. next page)

Engine Kit Bill of Material

FP-6076EIFK (cont'd.)

Qty.	Part No.	Description
(6)	FP-AR74814	Main Bearing, Plain
(6)	FP-AR74816	Main Bearing, Plain
(6)	FP-AR74817	Main Bearing, Plain
(6)	FP-AR74818	Main Bearing, Plain
(1)	FP-AR77747	Thrust Washer Set
(1)	FP-PG6076ES	In-Frame Gasket Set

FP-6076EOHK

Qty.	Part No.	Description
(6)	FP-RE48739	Cylinder Kit Complete
(6)	FP-AR73277	Connecting Rod Bearing Pair
(6)	FP-AR73279	Connecting Rod Bearing Pair
(6)	FP-AR73280	Connecting Rod Bearing Pair
(6)	FP-AR73281	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged
(6)	FP-AR74814	Main Bearing, Plain
(6)	FP-AR74816	Main Bearing, Plain
(6)	FP-AR74817	Main Bearing, Plain
(6)	FP-AR74818	Main Bearing, Plain
(6)	FP-R74008	Piston Pin Bushing
(1)	FP-AR77747	Thrust Washer Set
(4)	FP-R87561	Camshaft Bearing
(1)	FP-R82007	Camshaft Plug
(1)	FP-RE35647	Complete Overhaul Gasket Set
(12)	FP-R66452	Connecting Rod Bolt
(1)	FP-SK49025	Oil Seal Kit

FP-6076LIFK

Qty.	Part No.	Description
(6)	FP-RE60294	Cylinder Kit Complete
(12)	FP-R66452	Connecting Rod Bolt
(6)	FP-AR73277	Connecting Rod Bearing Pair
(6)	FP-AR73279	Connecting Rod Bearing Pair
(6)	FP-AR73280	Connecting Rod Bearing Pair
(6)	FP-AR73281	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged
(6)	FP-AR74814	Main Bearing, Plain
(6)	FP-AR74816	Main Bearing, Plain
(6)	FP-AR74817	Main Bearing, Plain
(6)	FP-AR74818	Main Bearing, Plain
(1)	FP-AR77747	Thrust Washer Set
(1)	FP-PG6076LS	In-Frame Gasket Set

FP-6076LOHK

Qty.	Part No.	Description
(6)	FP-RE60294	Cylinder Kit Complete
(6)	FP-AR73277	Connecting Rod Bearing Pair
(6)	FP-AR73279	Connecting Rod Bearing Pair
(6)	FP-AR73280	Connecting Rod Bearing Pair
(6)	FP-AR73281	Connecting Rod Bearing Pair
(1)	FP-AR77748	Main Bearing, Flanged
(1)	FP-AR77750	Main Bearing, Flanged
(1)	FP-AR77751	Main Bearing, Flanged
(6)	FP-AR74814	Main Bearing, Plain
(6)	FP-AR74816	Main Bearing, Plain
(6)	FP-AR74817	Main Bearing, Plain
(6)	FP-AR74818	Main Bearing, Plain
(6)	FP-R74008	Piston Pin Bushing
(1)	FP-AR77747	Thrust Washer Set
(4)	FP-R87561	Camshaft Bearing
(1)	FP-R82007	Camshaft Plug
(1)	FP-RE64206	Complete Overhaul Gasket Set
(12)	FP-R66452	Connecting Rod Bolt
(1)	FP-SK49025	Oil Seal Kit

FP-619EIFK

Qty.	Part No.	Description
(6)	FP-AR84089	Cylinder Kit Complete
(12)	FP-R66453	Connecting Rod Bolt

(cont'd. next column)

FP-619EIFK (cont'd.)

Qty.	Part No.	Description
(6)	FP-AR101271	Connecting Rod Bearing Pair
(6)	FP-AR104130	Connecting Rod Bearing Pair
(6)	FP-AR104131	Connecting Rod Bearing Pair
(6)	FP-AR104132	Connecting Rod Bearing Pair
(1)	FP-MBK619	Main Bearing Set
(1)	FP-MBK61910	Main Bearing Set
(1)	FP-MBK61920	Main Bearing Set
(6)	FP-AR104124	Main Bearing, Plain
(1)	FP-AR104128	Main Bearing, Plain
(1)	FP-AR89971	Thrust Washer Set
(1)	FP-PG619S	In-Frame Gasket Set

FP-619EOHK

Qty.	Part No.	Description
(6)	FP-AR84089	Cylinder Kit Complete
(6)	FP-AR101271	Connecting Rod Bearing Pair
(6)	FP-AR104130	Connecting Rod Bearing Pair
(6)	FP-AR104131	Connecting Rod Bearing Pair
(6)	FP-AR104132	Connecting Rod Bearing Pair
(1)	FP-MBK619	Main Bearing Set
(1)	FP-MBK61910	Main Bearing Set
(1)	FP-MBK61920	Main Bearing Set
(6)	FP-AR104124	Main Bearing, Plain
(1)	FP-AR104128	Main Bearing, Plain
(1)	FP-AR89971	Thrust Washer Set
(4)	FP-R46903	Camshaft Bearing
(1)	FP-R26115	Camshaft Plug
(1)	FP-RE37416	Complete Overhaul Gasket Set
(12)	FP-R66453	Connecting Rod Bolt
(1)	FP-SK13310	Oil Seal Kit

FP-619LIFK

Qty.	Part No.	Description
(6)	FP-RE40476	Cylinder Kit Complete
(12)	FP-R66453	Connecting Rod Bolt
(6)	FP-AR101271	Connecting Rod Bearing Pair
(6)	FP-AR104130	Connecting Rod Bearing Pair
(6)	FP-AR104131	Connecting Rod Bearing Pair
(6)	FP-AR104132	Connecting Rod Bearing Pair
(1)	FP-MBK619	Main Bearing Set
(1)	FP-MBK61910	Main Bearing Set
(1)	FP-MBK61920	Main Bearing Set
(6)	FP-AR104124	Main Bearing, Plain
(1)	FP-AR104128	Main Bearing, Plain
(1)	FP-AR89971	Thrust Washer Set
(1)	FP-PG619S	In-Frame Gasket Set

FP-619LOHK

Qty.	Part No.	Description
(6)	FP-RE40476	Cylinder Kit Complete
(6)	FP-AR101271	Connecting Rod Bearing Pair
(6)	FP-AR104130	Connecting Rod Bearing Pair
(6)	FP-AR104131	Connecting Rod Bearing Pair
(6)	FP-AR104132	Connecting Rod Bearing Pair
(1)	FP-MBK619	Main Bearing Set
(1)	FP-MBK61910	Main Bearing Set
(1)	FP-MBK61920	Main Bearing Set
(6)	FP-AR104124	Main Bearing, Plain
(1)	FP-AR104128	Main Bearing, Plain
(6)	FP-R69045	Piston Pin Bushing
(1)	FP-AR89971	Thrust Washer Set
(4)	FP-R46903	Camshaft Bearing
(1)	FP-R26115	Camshaft Plug
(1)	FP-RE37416	Complete Overhaul Gasket Set
(12)	FP-R66453	Connecting Rod Bolt
(1)	FP-SK13310	Oil Seal Kit

FP-619MIFK

Qty.	Part No.	Description
(6)	FP-RE20291	Cylinder Kit Complete

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FP-619MIFK (cont'd.)

Qty.	Part No.	Description
(12)	FP-R66453	Connecting Rod Bolt
(6)	FP-AR101271	Connecting Rod Bearing Pair
(6)	FP-AR104130	Connecting Rod Bearing Pair
(6)	FP-AR104131	Connecting Rod Bearing Pair
(6)	FP-AR104132	Connecting Rod Bearing Pair
(1)	FP-MBK619	Main Bearing Set
(1)	FP-MBK61910	Main Bearing Set
(1)	FP-MBK61920	Main Bearing Set
(6)	FP-AR104124	Main Bearing, Plain
(1)	FP-AR104128	Main Bearing, Plain
(1)	FP-AR89971	Thrust Washer Set
(1)	FP-PG619S	In-Frame Gasket Set

FP-619MOHK

Qty.	Part No.	Description
(6)	FP-RE20291	Cylinder Kit Complete
(6)	FP-AR101271	Connecting Rod Bearing Pair
(6)	FP-AR104130	Connecting Rod Bearing Pair
(6)	FP-AR104131	Connecting Rod Bearing Pair
(6)	FP-AR104132	Connecting Rod Bearing Pair
(1)	FP-MBK619	Main Bearing Set
(1)	FP-MBK61910	Main Bearing Set
(1)	FP-MBK61920	Main Bearing Set
(6)	FP-AR104124	Main Bearing, Plain
(1)	FP-AR104128	Main Bearing, Plain
(6)	FP-R69045	Piston Pin Bushing
(1)	FP-AR89971	Thrust Washer Set
(4)	FP-R46903	Camshaft Bearing
(1)	FP-R26115	Camshaft Plug
(1)	FP-RE37416	Complete Overhaul Gasket Set
(12)	FP-R66453	Connecting Rod Bolt
(1)	FP-SK13310	Oil Seal Kit

FP-671NA

Qty.	Part No.	Description
(1)	FP-5150117	Oil Pan Gasket
(6)	FP-23505305	Cylinder Kit Complete
(6)	FP-23505306	Cylinder Kit Complete
(6)	FP-2350530630	Cylinder Kit Complete
(6)	FP-235053065	Cylinder Kit Complete
(6)	FP-5149261	Cylinder Kit Complete
(6)	FP-5149263	Cylinder Kit Complete
(6)	FP-5149264	Cylinder Kit Complete
(6)	FP-23511129	Connecting Rod Bearing Pair
(6)	FP-23511133	Connecting Rod Bearing Pair
(6)	FP-23511135	Connecting Rod Bearing Pair
(6)	FP-23511137	Connecting Rod Bearing Pair
(7)	FP-5192874	Main Bearing, Plain
(7)	FP-5192875	Main Bearing, Plain
(7)	FP-5192876	Main Bearing, Plain
(7)	FP-5192877	Main Bearing, Plain
(7)	FP-5192878	Main Bearing, Plain
(4)	FP-5159353	Thrust Washer
(1)	FP-5195742	Head Gasket Set
(1)	FP-5104019	Valve Cover Gasket
(1)	FP-5143407	Valve Cover Gasket

FP-671NAOH

Qty.	Part No.	Description
(6)	FP-23505305	Cylinder Kit Complete
(6)	FP-23505306	Cylinder Kit Complete
(6)	FP-2350530630	Cylinder Kit Complete
(6)	FP-235053065	Cylinder Kit Complete
(6)	FP-5149261	Cylinder Kit Complete
(6)	FP-5149263	Cylinder Kit Complete
(6)	FP-5149264	Cylinder Kit Complete
(6)	FP-23511129	Connecting Rod Bearing Pair
(6)	FP-23511133	Connecting Rod Bearing Pair
(6)	FP-23511135	Connecting Rod Bearing Pair
(6)	FP-23511137	Connecting Rod Bearing Pair

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FP-671NAOH (cont'd.)

Qty.	Part No.	Description
(7)	FP-5192874	Main Bearing, Plain
(7)	FP-5192875	Main Bearing, Plain
(7)	FP-5192876	Main Bearing, Plain
(7)	FP-5192877	Main Bearing, Plain
(7)	FP-5192878	Main Bearing, Plain
(4)	FP-5159353	Thrust Washer
(1)	FP-23512676	Complete Overhaul Gasket Set
(1)	FP-5104019	Valve Cover Gasket
(1)	FP-5143407	Valve Cover Gasket

FP-671XH

Qty.	Part No.	Description
(1)	FP-5150117	Oil Pan Gasket
(6)	FP-20019	Cylinder Kit Complete
(6)	FP-20020	Cylinder Kit Complete
(6)	FP-20021	Cylinder Kit Complete
(6)	FP-20022	Cylinder Kit Complete
(6)	FP-23522473	Cylinder Kit Complete
(6)	FP-235224735	Cylinder Kit Complete
(6)	FP-23522477	Cylinder Kit Complete
(6)	FP-23522479	Cylinder Kit Complete
(6)	FP-23522481	Cylinder Kit Complete
(6)	FP-23522483	Cylinder Kit Complete
(6)	FP-23522485	Cylinder Kit Complete
(6)	FP-2352248530	Cylinder Kit Complete
(6)	FP-235224855	Cylinder Kit Complete
(6)	FP-23522489	Cylinder Kit Complete
(6)	FP-23522491	Cylinder Kit Complete
(6)	FP-23522493	Cylinder Kit Complete
(6)	FP-23522507	Cylinder Kit Complete
(6)	FP-235225075	Cylinder Kit Complete
(6)	FP-23522509	Cylinder Kit Complete
(6)	FP-23522511	Cylinder Kit Complete
(6)	FP-23522513	Cylinder Kit Complete
(6)	FP-23522515	Cylinder Kit Complete
(6)	FP-23522521	Cylinder Kit Complete
(6)	FP-23522525	Cylinder Kit Complete
(6)	FP-23522946	Cylinder Kit Complete
(6)	FP-23522947	Cylinder Kit Complete
(6)	FP-23522948	Cylinder Kit Complete
(6)	FP-23522949	Cylinder Kit Complete
(6)	FP-2352294930	Cylinder Kit Complete
(6)	FP-235229495	Cylinder Kit Complete
(6)	FP-23522950	Cylinder Kit Complete
(6)	FP-23522951	Cylinder Kit Complete
(6)	FP-23522952	Cylinder Kit Complete
(6)	FP-23522953	Cylinder Kit Complete
(6)	FP-23511129	Connecting Rod Bearing Pair
(6)	FP-23511131	Connecting Rod Bearing Pair
(6)	FP-23511133	Connecting Rod Bearing Pair
(6)	FP-23511135	Connecting Rod Bearing Pair
(6)	FP-23511137	Connecting Rod Bearing Pair
(7)	FP-5192874	Main Bearing, Plain
(7)	FP-5192875	Main Bearing, Plain
(7)	FP-5192876	Main Bearing, Plain
(7)	FP-5192877	Main Bearing, Plain
(7)	FP-5192878	Main Bearing, Plain
(4)	FP-5159353	Thrust Washer
(1)	FP-5195742	Head Gasket Set
(1)	FP-5104019	Valve Cover Gasket
(1)	FP-5143407	Valve Cover Gasket

FP-671XHOH

Qty.	Part No.	Description
(6)	FP-20019	Cylinder Kit Complete
(6)	FP-20020	Cylinder Kit Complete
(6)	FP-20021	Cylinder Kit Complete
(6)	FP-20022	Cylinder Kit Complete
(6)	FP-23522473	Cylinder Kit Complete
(6)	FP-235224735	Cylinder Kit Complete
(6)	FP-23522477	Cylinder Kit Complete
(6)	FP-23522479	Cylinder Kit Complete
(6)	FP-23522481	Cylinder Kit Complete
(6)	FP-23522483	Cylinder Kit Complete
(6)	FP-23522485	Cylinder Kit Complete
(6)	FP-2352248530	Cylinder Kit Complete
(6)	FP-235224855	Cylinder Kit Complete
(6)	FP-23522489	Cylinder Kit Complete
(6)	FP-23522491	Cylinder Kit Complete

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Qty.	Part No.	Description
	FP-671XHOH (cont'd.)	
(6)	**FP-23522493**	Cylinder Kit Complete
(6)	**FP-23522507**	Cylinder Kit Complete
(6)	**FP-235225075**	Cylinder Kit Complete
(6)	**FP-23522509**	Cylinder Kit Complete
(6)	**FP-23522511**	Cylinder Kit Complete
(6)	**FP-23522513**	Cylinder Kit Complete
(6)	**FP-23522515**	Cylinder Kit Complete
(6)	**FP-23522521**	Cylinder Kit Complete
(6)	**FP-23522525**	Cylinder Kit Complete
(6)	**FP-23522946**	Cylinder Kit Complete
(6)	**FP-23522947**	Cylinder Kit Complete
(6)	**FP-23522948**	Cylinder Kit Complete
(6)	**FP-23522949**	Cylinder Kit Complete
(6)	**FP-2352294930**	Cylinder Kit Complete
(6)	**FP-235229495**	Cylinder Kit Complete
(6)	**FP-23522950**	Cylinder Kit Complete
(6)	**FP-23522951**	Cylinder Kit Complete
(6)	**FP-23522952**	Cylinder Kit Complete
(6)	**FP-23522953**	Cylinder Kit Complete
(6)	**FP-23511129**	Connecting Rod Bearing Pair
(6)	**FP-23511131**	Connecting Rod Bearing Pair
(6)	**FP-23511133**	Connecting Rod Bearing Pair
(6)	**FP-23511135**	Connecting Rod Bearing Pair
(6)	**FP-23511137**	Connecting Rod Bearing Pair
(7)	**FP-5192874**	Main Bearing, Plain
(7)	**FP-5192875**	Main Bearing, Plain
(7)	**FP-5192876**	Main Bearing, Plain
(7)	**FP-5192877**	Main Bearing, Plain
(7)	**FP-5192878**	Main Bearing, Plain
(4)	**FP-5159353**	Thrust Washer
(1)	**FP-23512676**	Complete Overhaul Gasket Set
(1)	**FP-5104019**	Valve Cover Gasket
(1)	**FP-5143407**	Valve Cover Gasket
	FP-6712V	
(1)	**FP-5150117**	Oil Pan Gasket
(6)	**FP-23505308**	Cylinder Kit Complete
(6)	**FP-23505309**	Cylinder Kit Complete
(6)	**FP-235053091**	Cylinder Kit Complete
(6)	**FP-2350530910**	Cylinder Kit Complete
(6)	**FP-2350530920**	Cylinder Kit Complete
(6)	**FP-2350530930**	Cylinder Kit Complete
(6)	**FP-235053095**	Cylinder Kit Complete
(6)	**FP-23511129**	Connecting Rod Bearing Pair
(6)	**FP-23511131**	Connecting Rod Bearing Pair
(6)	**FP-23511133**	Connecting Rod Bearing Pair
(6)	**FP-23511135**	Connecting Rod Bearing Pair
(6)	**FP-23511137**	Connecting Rod Bearing Pair
(7)	**FP-5192874**	Main Bearing, Plain
(7)	**FP-5192875**	Main Bearing, Plain
(7)	**FP-5192876**	Main Bearing, Plain
(7)	**FP-5192877**	Main Bearing, Plain
(7)	**FP-5192878**	Main Bearing, Plain
(4)	**FP-5159353**	Thrust Washer
(1)	**FP-5192926**	Head Gasket Set
(1)	**FP-5195742**	Head Gasket Set
(1)	**FP-5104019**	Valve Cover Gasket
(1)	**FP-5143407**	Valve Cover Gasket
	FP-6712VOH	
(6)	**FP-23505308**	Cylinder Kit Complete
(6)	**FP-23505309**	Cylinder Kit Complete
(6)	**FP-235053091**	Cylinder Kit Complete
(6)	**FP-2350530910**	Cylinder Kit Complete
(6)	**FP-2350530920**	Cylinder Kit Complete
(6)	**FP-2350530930**	Cylinder Kit Complete
(6)	**FP-235053095**	Cylinder Kit Complete
(6)	**FP-23511129**	Connecting Rod Bearing Pair
(6)	**FP-23511131**	Connecting Rod Bearing Pair
(6)	**FP-23511133**	Connecting Rod Bearing Pair

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Qty.	Part No.	Description
	FP-6712VOH (cont'd.)	
(6)	**FP-23511135**	Connecting Rod Bearing Pair
(6)	**FP-23511137**	Connecting Rod Bearing Pair
(7)	**FP-5192874**	Main Bearing, Plain
(7)	**FP-5192875**	Main Bearing, Plain
(7)	**FP-5192876**	Main Bearing, Plain
(7)	**FP-5192877**	Main Bearing, Plain
(7)	**FP-5192878**	Main Bearing, Plain
(4)	**FP-5159353**	Thrust Washer
(1)	**FP-23512676**	Complete Overhaul Gasket Set
(1)	**FP-5192923**	Complete Overhaul Gasket Set
(1)	**FP-5104019**	Valve Cover Gasket
(1)	**FP-5143407**	Valve Cover Gasket

Part No.	Line No.
AT-2084	JD 44
AT-2084B	JD 44
CS-380	JD 44
E-196K	JD 44
E-196X	JD 44
FP-AR100385	JD 98, 99, 114, JDI 28
FP-AR100386	JD 95, 113
FP-AR100616	JD 114, JDI 28
FP-AR100616WP	JD 114, JDI 28
FP-AR100632	JD 113
FP-AR100638	JD 113
FP-AR100638WS	JD 113
FP-AR100646	JD 114
FP-AR100673	JD 114, JDI 28
FP-AR100673WP	JD 114, JDI 28
FP-AR100960	JD 114
FP-AR101266	JD 122, 123, 127
FP-AR101267	JD 122, 123, 127
FP-AR101268	JD 122, 123, 127, JDI 42
FP-AR101269	JD 122, 123, 127, JDI 42
FP-AR101271	JD 122, 123, 127, JDI 42
FP-AR101549	JD 23, 41, 50-53, 63, 65, 67, 68, 78, 83-86, 106, 109, 110, 113, 114, JDI 8-11, 16, 17, 21, 26-28
FP-AR103451	JD 114, JDI 28
FP-AR104122	JD 122, 123, 127, JDI 42
FP-AR104123	JD 122, 123, 127, JDI 42
FP-AR104124	JD 122, 123, 127, JDI 42
FP-AR104126	JD 122, 123, 127, JDI 42
FP-AR104127	JD 122, 123, 127, JDI 42
FP-AR104128	JD 122, 123, 127, JDI 42
FP-AR104130	JD 122, 123, 127, JDI 42
FP-AR104131	JD 122, 123, 127, JDI 42
FP-AR104132	JD 122, 123, 127, JDI 42
FP-AR104564	JD 122, 123, 127
FP-AR104565	JD 122, 123, 127
FP-AR104566	JD 122, 123, 127
FP-AR104568	JD 122, 123, 127
FP-AR104569	JD 122, 123, 127
FP-AR104570	JD 122, 123, 127
FP-AR26428	JD 60
FP-AR35992	JD 122
FP-AR40155	JD 60, 95
FP-AR40485	JD 60
FP-AR41295	JD 122
FP-AR44505	JD 122
FP-AR44506	JD 122
FP-AR44506WP	JD 122
FP-AR45723	JD 36, 46, 47, 54-56, 59, 60, 71, 81, 82, 87, 94-99, 113
FP-AR46396	JD 36, 46, 47, 54-56, 59, 60, 71, 81, 82, 87, 94-99, 113
FP-AR46397	JD 36, 46, 47, 54-56, 59, 60, 71, 81, 82, 87, 94-99, 113
FP-AR46398	JD 36, 46, 47, 54-56, 59, 60, 71, 81, 82, 87, 94-99, 113
FP-AR48675	JD 51-53, 63, 65-68, 83-86, 98, 99, 106, 109, 113-116, 118, 119, 121, 123, 127, JDI 9-11, 15-17, 21, 26, 28-30, 32-34, 36, 40-42, JDM 6-8, 10-12
FP-AR49025	JD 36, 54-56, 59, 60, 81, 82, 94-99, 113-123, 127, JDI 28-36, 42, JDM 9-12
FP-AR49238	JD 60, 95
FP-AR49239	JD 60, 95
FP-AR49240	JD 60, 95
FP-AR49242	JD 60, 95
FP-AR49243	JD 60, 95
FP-AR49245	JD 60, 95
FP-AR49246	JD 60, 95
FP-AR49247	JD 60, 95
FP-AR50624	JD 98, 99
FP-AR50624WP	JD 98, 99
FP-AR51741	JD 95, 96, 98
FP-AR51798	JD 98, 99
FP-AR51902	JD 18, 37, 38, 72-74
FP-AR51903	JD 23, 41, 78
FP-AR53020	JD 122, 123, 127, JDI 42
FP-AR53032	JD 60
FP-AR53033	JD 60
FP-AR53033WS	JD 60
FP-AR53034	JD 60
FP-AR53035	JD 60
FP-AR53035WS	JD 60
FP-AR53094	JD 98, 99
FP-AR53094WS	JD 98, 99
FP-AR53225	JD 123
FP-AR53226	JD 123
FP-AR53227	JD 123
FP-AR53227WP	JD 123
FP-AR53613	JD 122
FP-AR53614	JD 122
FP-AR53614WS	JD 122
FP-AR53625	JD 95
FP-AR53626	JD 95
FP-AR53626WS	JD 95
FP-AR53630	JD 95
FP-AR53631	JD 95
FP-AR53631WS	JD 95
FP-AR54552	JD 98, 99
FP-AR54552WP	JD 98, 99
FP-AR55394	JD 95, 98, 113, 117-121, JDI 31-34, 36, JDM 10-12
FP-AR55617	JD 60, 95
FP-AR55619	JD 60
FP-AR55630	JD 59, 60, 94-96, 98, 99
FP-AR55630S	JD 59, 60, 94-96, 98, 99
FP-AR55759	JD 23, 41, 42, 78
FP-AR55759S	JD 41, 42
FP-AR55951	JD 122
FP-AR56154	JD 123
FP-AR57208	JD 122, 123, 127, JDI 42
FP-AR57209	JD 122, 123, 127, JDI 42
FP-AR57210	JD 122, 123, 127, JDI 42
FP-AR57264	JD 95, 113
FP-AR58952	JD 117-121, JDI 31-36, JDM 10-12
FP-AR61538	JD 27, 28, JDI 2-4, 6
FP-AR63269	JD 98, 99
FP-AR63269WS	JD 98, 99
FP-AR63270	JD 98, 99
FP-AR63272	JD 98, 99
FP-AR63342	JD 67, JDI 16
FP-AR63342WP	JD 67, JDI 16
FP-AR63938	JD 95
FP-AR63938WS	JD 95
FP-AR63940	JD 95
FP-AR65502	JD 95, 96, 98, 99
FP-AR65507	JD 27-30, 50-53, 60-68, 83-85, 95, 98, 99, 101-110, JDI 2-11, 13-27, JDM 1-8
FP-AR66347	JD 123
FP-AR66347WP	JD 123
FP-AR67510	JD 123
FP-AR67512	JD 123
FP-AR67942	JD 10-12, 17, 18, 22, 23, 27-31, 37-42, 50-53, 61-68, 72-74, 77, 78, 80, 83-86, 106, 109-111, JDI 2-11, 16, 17, 21, 26, 27
FP-AR68188	JD 67, 109, JDI 16, 26
FP-AR68188WP	JD 67, 109, JDI 16, 26
FP-AR69038	JD 127, JDI 42
FP-AR69038WP	JD 127, JDI 42
FP-AR70601	JD 72, 78
FP-AR70633	JD 10, 12, 18, 31, 37, 38, 72, 73
FP-AR71591	JD 18, 38, 73
FP-AR71593	JD 23, 41, 78, 79
FP-AR71617	JD 18, 38, 73
FP-AR71618	JD 23, 41, 42, 78
FP-AR72079	JD 114
FP-AR72351	JD 127-129, JDI 42-44, JDM 16
FP-AR72852	JD 101, 105, 107, 113, 114, 116, 117, 120, 127, JDI 18, 23, 24, 28, 30, 31, 35, 42
FP-AR73277	JD 98, 99, 114-116, JDI 29, 30, JDM 9
FP-AR73279	JD 98, 99, 114-116, JDI 29, 30, JDM 9
FP-AR73280	JD 98, 99, 114-116, JDI 29, 30, JDM 9
FP-AR73281	JD 98, 99, 114-116, JDI 29, 30, JDM 9
FP-AR74814	JD 60, 95, 98, 99, 113-116, JDI 29, 30, JDM 9
FP-AR74816	JD 60, 95, 98, 99, 113-116, JDI 29, 30, JDM 9
FP-AR74817	JD 60, 95, 98, 99, 113-116, JDI 29, 30, JDM 9
FP-AR74818	JD 60, 95, 98, 99, 113-116, JDI 29, 30, JDM 9
FP-AR77411	JD 72, 78
FP-AR77747	JD 60, 71, 87, 94-96, 98, 99, 113-116, JDI 29, 30, JDM 9
FP-AR77748	JD 60, 95, 98, 99, 113-116, JDI 29, 30, JDM 9
FP-AR77750	JD 60, 95, 98, 99, 113-116, JDI 29, 30, JDM 9
FP-AR77751	JD 60, 95, 98, 99, 113-116, JDI 29, 30, JDM 9
FP-AR77752	JD 60, 95, 98, 99, 113-116, JDI 29, 30, JDM 9
FP-AR77754	JD 60, 95
FP-AR77756	JD 60, 95
FP-AR77757	JD 60, 95
FP-AR77758	JD 60, 95
FP-AR77762	JD 23, 41, 42, 78
FP-AR77762WP	JD 23, 41, 42, 78
FP-AR78041	JD 23, 41, 42, 78
FP-AR78310	JD 23, 41, 78
FP-AR78310WP	JD 23, 41, 78
FP-AR82355	JD 127, JDI 42
FP-AR83610	JD 113
FP-AR84089	JD 127, JDI 42
FP-AR85629	JD 113
FP-AR85629WP	JD 113
FP-AR87753	JD 113
FP-AR89564	JD 18, 23, 27, 38, 41, 50, 73, 78, JDI 2, 8
FP-AR89622	JD 123, 127, JDI 42
FP-AR89971	JD 123, 127, JDI 42
FP-AR90860	JD 106, 127, JDI 21, 42
FP-AR92533	JD 122, 123, 127, JDI 42
FP-AR93629	JD 114, JDI 28
FP-AR93629WP	JD 114, JDI 28
FP-AR96189	JD 95, 98, 99, 113-116, JDI 29, 30, JDM 9
FP-AR96389	JD 68, 110, JDI 17, 27
FP-AR96389WP	JD 68, 106, 110, JDI 17, 27
FP-AR97517	JD 52, 53, 63, 65, 67, 68, 106, 109, 110, JDI 10, 11, 16, 17, 21, 26, 27, JDM 7
FP-AR97653	JD 52, 53, 63, 65, 67, 68, 106, 109, 110, JDI 10, 11, 16, 17, 21, 26, 27, JDM 7
FP-AR97654	JD 52, 53, 63, 65, 67, 68, 106, 109, 110, JDI 10, 11, 16, 17, 21, 26, 27, JDM 7
FP-AR97655	JD 52, 53, 63, 65, 67, 68, 106, 109, 110, JDI 10, 11, 16, 17, 21, 26, 27, JDM 7
FP-AR98564	JD 60, 95
FP-AR98845	JD 114
FP-AR98845WS	JD 114
FP-AR98850	JD 113-121, 124-126, JDI 29-39, JDM 9-15
FP-AR98851	JD 114
FP-AT18030	JD 38, 41, 42, 50, 51, JDI 8, 9
FP-AT18031	JD 18, 23, 27, 28, JDI 2, 3
FP-AT22562	JD 73, 74, 78, 85
FP-AT25038	JD 98, 114, 116, JDM 9
FP-AU43144	JD 123, 127, JDI 42
FP-A1239P	JD 34, 35
FP-A1239P125	JD 34, 35
FP-A1239P45	JD 34, 35
FP-A1239P90	JD 34, 35
FP-A1276P	JD 3
FP-A1276P125	JD 3
FP-A1276P45	JD 3
FP-A1276P90	JD 3
FP-A1278P	JD 34, 35
FP-A1278P125	JD 34, 35
FP-A1278P45	JD 34, 35
FP-A1278P90	JD 34, 35
FP-A4730R	JD 54-56, 60, 67, 68, 72, 73, 90, 91, 95, 109, 110, JDI 16, 17, 26, 27
FP-B2762R	JD 87, 88, 95, JDM 12
FP-B3586R	JD 54-56, 60, 87, 88, 95
FP-B367R	JD 3, 7, 34-36, 44, 46, 47, 59, 60, 71, 81, 82, 94, 95

Part No.	Line No.
FP-CK32278350	**JD** 123
FP-CK34818635	**JD** 18, 38, 73
FP-CK45065124	**JD** 122
FP-CK63478350	**JD** 123
FP-CK65482366	**JD** 122
FP-CK83108636	**JD** 23, 41, 78
FP-D2824R	**JD** 122
FP-E1343FN	**JD** 113-121, 123, **JDI** 28-36, **JDM** 9-12
FP-E323KC	**JD** 21
FP-E323KC20	**JD** 21
FP-E323KC30	**JD** 21
FP-E323KC40	**JD** 21
FP-E323KC60	**JD** 21
FP-E323X	**JD** 21
FP-E323X20	**JD** 21
FP-E323X30	**JD** 21
FP-E323X40	**JD** 21
FP-E323X60	**JD** 21
FP-H35244	**JD** 27-30, 50-53, 63, 65, 67, 68, 72, 74, 78, 83-86, 104, 106, 109, 110, **JDI** 2-11, 16, 17, 21, 26, 27
FP-H80753	**JD** 60, 95
FP-IFKN14AR*	**JD** 130
FP-IFKPT4045T	**JD** 61, 62, 64, 66, **JDI** 12-15, **JDM** 1-3
FP-IFKPT6068	**JD** 102-104, 108, **JDI** 19, 20, 22, 25
FP-IFKPT6081*	**JD** 118, 119, 121, **JDI** 32, 33, 36
FP-JD10058	**JD** 113-116, 118, 119, 121, **JDI** 28-30, 32-34, 36, **JDM** 9-11
FP-JD10113	**JD** 113, 114, **JDI** 28
FP-JD10171	**JD** 113, 114, **JDI** 28
FP-JD10238	**JD** 114, **JDI** 28
FP-JD10329	**JD** 106, 114-116, 118, 119, 121, 128, 129, **JDI** 21, 28-30, 32-34, 36, 40, 41, 43, 44, **JDM** 7, 9-11
FP-JD10362	**JD** 114-116, 128, 129, **JDI** 28-30, 43, 44, **JDM** 9, 16
FP-JD10363	**JD** 114-116, 128, 129, **JDI** 28-30, 43, 44, **JDM** 9, 16
FP-JD7438	**JD** 75, 76, 90, 92, 93, 100, 111
FP-JD7466	**JD** 19
FP-JD7686	**JD** 106, **JDI** 21, **JDM** 7
FP-JD8130	**JD** 19
FP-JD8135	**JD** 75, 76, 90, 92, 93, 100, 111
FP-JD8537	**JD** 41
FP-JD8643	**JD** 51-53, 63, 65, 68, 83-86, 106, 110, **JDI** 9-11, 17, 21, **JDM** 7
FP-JD9212	**JD** 60, 95
FP-JD9257	**JD** 10, 12, 18, 23, 31, 37, 50-53, 63, 65, 67, 83, 84, 95, 98, 99, 113, 114, 122, **JDI** 8-11, 16, 28
FP-JD9355	**JD** 54-56, 60, 87-89, 95, 98, 99
FP-JD9398	**JD** 72, 73, 77, 78
FP-JD9448	**JD** 23, 27, 28, 41, 50, 52, **JDI** 2-4, 6
FP-JD9449	**JD** 10, 12, 17, 23, 27, 28, 31, 38, 40, 41, 50-53, 63, 65, 67, 68, 72, 73, 77-79, 83, 85, 86, 90, 91, 95, 98, 106, 109, 110, 113-116, 118, 119, 121, 122, 127, **JDI** 3, 8-11, 16, 26, 27, 29, 30, 32-34, 36, 42, **JDM** 9-12
FP-KST2084A	**JD** 36
FP-KST2279A	**JD** 46
FP-KST2454A	**JD** 47
FP-LCK5306	**JD** 70, 112
FP-LCK5309	**JD** 70, 112
FP-LKRE23163	**JD** 60, 95
FP-MBK300	**JD** 36, 54-56
FP-MBK3001	**JD** 36, 46, 47, 54-56
FP-MBK30010	**JD** 36, 54-56
FP-MBK300110	**JD** 36, 46, 47, 54-56
FP-MBK300120	**JD** 36, 46, 47, 54-56
FP-MBK300130	**JD** 36, 46, 47, 54-56
FP-MBK3002	**JD** 10, 12, 31, 37, 40
FP-MBK30020	**JD** 36, 54-56
FP-MBK300210	**JD** 10, 12, 31, 37, 40
FP-MBK300220	**JD** 10, 12, 31, 37, 40
FP-MBK300230	**JD** 10, 12, 31, 37, 40
FP-MBK3003	**JD** 17, 18, 22, 23, 27, 28, 72, 77, **JDI** 2-4, 6
FP-MBK30030	**JD** 36, 54-56
FP-MBK300310	**JD** 17, 18, 22, 23, 27, 28, 72, 77, **JDI** 2-4, 6
FP-MBK300320	**JD** 17, 18, 22, 23, 27, 28, 72, 77, **JDI** 2-4, 6
FP-MBK300330	**JD** 17, 18, 22, 23, 27, 28, 72, 77, **JDI** 2-4, 6
FP-MBK3004	**JD** 11, 38, 41, 42, 50-53, 63, 65, 67, 68, **JDI** 8-11, 16, 17
FP-MBK300410	**JD** 11, 38, 41, 42, 50-53, 63, 65, 67, 68, **JDI** 8-11, 16, 17
FP-MBK300420	**JD** 11, 38, 41, 42, 50-53, 63, 65, 67, 68, **JDI** 8-11, 16, 17
FP-MBK300430	**JD** 11, 38, 41, 42, 50-53, 63, 65, 67, 68, **JDI** 8-11, 16, 17
FP-MBK3005	**JD** 71, 87
FP-MBK300510	**JD** 71, 87
FP-MBK300520	**JD** 71, 87
FP-MBK300530	**JD** 71, 87
FP-MBK3006	**JD** 73, 78, 80, 83-86, 106, 109, 110, **JDI** 21, 26, 27
FP-MBK300610	**JD** 73, 78, 80, 83-86, 106, 109, 110, **JDI** 21, 26, 27
FP-MBK300620	**JD** 73, 78, 80, 83-86, 106, 109, 110, **JDI** 21, 26, 27
FP-MBK300630	**JD** 73, 78, 80, 83-86, 106, 109, 110, **JDI** 21, 26, 27
FP-MBK3007	**JD** 71, 81, 82
FP-MBK300710	**JD** 71, 81, 82
FP-MBK300720	**JD** 71, 81, 82
FP-MBK300730	**JD** 71, 81, 82
FP-MBK400E4	**JD** 59, 60
FP-MBK400E410	**JD** 59, 60
FP-MBK400E420	**JD** 59, 60
FP-MBK400E430	**JD** 59, 60
FP-MBK400E6	**JD** 94, 95
FP-MBK400E610	**JD** 94, 95
FP-MBK400E620	**JD** 94, 95
FP-MBK400E630	**JD** 94, 95
FP-MBK400L4	**JD** 59, 60, 95-99, 113, 116, **JDI** 30, **JDM** 9
FP-MBK400L410	**JD** 59, 60, 95-99, 113, 116, **JDI** 30, **JDM** 9
FP-MBK400L420	**JD** 59, 60, 95-99, 113, 116, **JDI** 30, **JDM** 9
FP-MBK400L6	**JD** 94-96, 98, 99, 113, 114, 116, **JDI** 30, **JDM** 9
FP-MBK400L610	**JD** 94-96, 98, 99, 113, 114, 116, **JDI** 30, **JDM** 9
FP-MBK400L620	**JD** 94-96, 98, 99, 113, 114, 116, **JDI** 30, **JDM** 9
FP-MBK400L630	**JD** 94-96, 98, 99, 113, 114, 116, **JDI** 30, **JDM** 9
FP-MBK531	**JD** 122, 123, 127, **JDI** 42
FP-MBK53110	**JD** 122, 123, 127, **JDI** 42
FP-MBK53120	**JD** 122, 123, 127, **JDI** 42
FP-MBK53130	**JD** 122, 123, 127, **JDI** 42
FP-MBK619	**JD** 122, 123, 127, **JDI** 42
FP-MBK61910	**JD** 122, 123, 127, **JDI** 42
FP-MBK61920	**JD** 122, 123, 127, **JDI** 42
FP-MBK61930	**JD** 122, 123, 127, **JDI** 42
FP-M41029	**JD** 23, 27, 41, 42, 50, 52, 61, 62, 64, 66, 67, 78, 83, 85, 102-104, 108, **JDI** 2, 4, 8, 10, 12-16, 19, 22, 25, **JDM** 1, 2, 4, 5
FP-N51168	**JD** 127-129, **JDI** 42-44, **JDM** 16
FP-OHPT6081*	**JD** 118, 119, 121, **JDI** 32, 33, 36
FP-PG100FS	**JD** 3
FP-PG100HS	**JD** 3
FP-PG113FS	**JD** 7
FP-PG115FS	**JD** 8, 13, 14, 24
FP-PG152S	**JD** 18
FP-PG164S	**JD** 23, 27-30, **JDI** 2-7
FP-PG175FS	**JD** 16, 26, 34, 35
FP-PG175HS	**JD** 16, 26, 34, 35
FP-PG202S	**JD** 38
FP-PG219CS	**JD** 10-12, 17, 18, 22, 23, 27, 28, 31, 32, 37, 38, 40-42, 50, 51, 67, 68, **JDI** 2, 3, 9, 16, 17
FP-PG219S	**JD** 41, 42, 50-53, 63, 65, 67, 68, **JDI** 8-11, 16, 17
FP-PG270ES	**JD** 60
FP-PG270LS	**JD** 60
FP-PG300PS	**JD** 23, 29, 30, **JDI** 4-7
FP-PG301PS	**JD** 63, 65
FP-PG302PS	**JD** 78, 83, 84
FP-PG303PS	**JD** 83-86, 106, 109, 110, **JDI** 21, 26, 27
FP-PG303S	**JD** 73
FP-PG308FS	**JD** 75, 76
FP-PG308XFS	**JD** 75, 76
FP-PG329S	**JD** 78, 80
FP-PG359S	**JD** 83-86, 106, 109, 110, **JDI** 21, 26, 27
FP-PG400PS	**JD** 113-116, **JDI** 28-30, **JDM** 9
FP-PG401PS	**JD** 113, 114, 116, **JDI** 28, 30
FP-PG402PS	**JD** 60
FP-PG403PS	**JD** 113
FP-PG404DES	**JD** 95
FP-PG404DLS	**JD** 95
FP-PG404DMS	**JD** 95
FP-PG404TAS	**JD** 98, 99
FP-PG466DS	**JD** 113
FP-PG466TAS	**JD** 114
FP-PG500PS	**JD** 127, **JDI** 42
FP-PG501PS	**JD** 127, **JDI** 42
FP-PG531AS	**JD** 123
FP-PG531DS	**JD** 122
FP-PG531TS	**JD** 123
FP-PG6076ES	**JD** 115, 116, **JDI** 29, 30
FP-PG6076LS	**JD** 115, 116, **JDI** 29, 30
FP-PG6081S	**JDI** 34
FP-PG619S	**JD** 127, **JDI** 42
FP-P48347	**JD** 123
FP-RE10967	**JD** 114, **JDI** 28
FP-RE11410	**JD** 18, 23, 27, 28, 38, 41, 42, 50, 51, 60, 67, 68, 73, 78, 85, 86, 95, 96, 98, 99, 109, 110, 113-121, **JDI** 2, 3, 8, 9, 16, 17, 26, 27, 29-31, 35, **JDM** 9
FP-RE13310	**JD** 122, 123, 127, **JDI** 42
FP-RE16548	**JD** 122
FP-RE16548WP	**JD** 122
FP-RE16549	**JD** 122
FP-RE17046	**JD** 123
FP-RE17046WS	**JD** 123
FP-RE17050	**JD** 123
FP-RE17050WS	**JD** 123
FP-RE19282	**JD** 27, 50, 52, 83, 85, **JDI** 2, 4, 8, 10
FP-RE19282WP	**JD** 27, 50, 52, 83, 85, **JDI** 2, 4, 8, 10
FP-RE19511	**JD** 106, **JDI** 21, **JDM** 7
FP-RE19831	**JD** 67, **JDI** 16
FP-RE19832	**JD** 68, 110, **JDI** 17, 27
FP-RE19833	**JD** 67, 109, **JDI** 16, 26
FP-RE20291	**JD** 127, **JDI** 42
FP-RE20585	**JD** 50-53, **JDI** 8-11
FP-RE20767	**JD** 127, **JDI** 40-42
FP-RE20768	**JD** 114-116, 127-129, **JDI** 29, 30, 40-44
FP-RE22764	**JD** 36, 54-56, 59, 60, 71, 81, 82, 94-99, 113-121, **JDI** 28-36, **JDM** 9-11
FP-RE23160	**JD** 95, 96
FP-RE23163	**JD** 95
FP-RE23163WP	**JD** 95
FP-RE23165	**JD** 60, 95
FP-RE23168	**JD** 60, 95
FP-RE23168WP	**JD** 60, 95
FP-RE23170	**JD** 60, 95
FP-RE23172	**JD** 60, 95
FP-RE23172WP	**JD** 59, 60, 94, 95
FP-RE23173	**JD** 59, 60, 94, 95
FP-RE24959	**JD** 8, 10-15, 17, 18, 22-25, 27-31, 37-42, 49-53, 57, 58, 61-68, 72-74, 77, 78, 80, 83-86, 102-104, 106, 108-111, **JDI** 2-17, 19-22, 25-27, **JDM** 1, 4, 5
FP-RE27348	**JD** 11, 18, 22, 23, 27-30, 38, 41, 42, 50-53, 63, 72-74, 77, 78, 80, 83-86, **JDI** 2-11
FP-RE27349	**JD** 11, 18, 22, 23, 27-30, 38, 41, 42, 50-53, 63, 72-74, 77, 78, 80, 83-86, **JDI** 2-11

Part No.	Line No.
FP-RE27352	**JD** 18, 23, 27-30, 38, 41, 42, 50-53, 63, 65, 67, 68, 73, 74, 78, 83-86, 106, 109, 110, **JDI** 2-11, 16, 17, 21, 26, 27, **JDM** 7
FP-RE27353	**JD** 18, 23, 27-30, 38, 41, 42, 50-53, 63, 65, 67, 68, 73, 74, 78, 83-86, 106, 109, 110, **JDI** 2-11, 16, 17, 21, 26, 27, **JDM** 7
FP-RE27358	**JD** 11, 18, 22, 23, 27-30, 38, 41, 42, 50-53, 63, 72-74, 77, 78, 80, 83-86, **JDI** 2-11
FP-RE27360	**JD** 18, 23, 27-30, 38, 41, 42, 50-53, 63, 65, 67, 68, 73, 74, 78, 83-86, 106, 109, 110, **JDI** 2-11, 16, 17, 21, 26, 27, **JDM** 7
FP-RE27364	**JD** 11, 18, 22, 23, 27-30, 38, 41, 42, 50-53, 63, 72-74, 77, 78, 80, 83-86, **JDI** 2-11
FP-RE27368	**JD** 18, 23, 27-30, 38, 41, 42, 50-53, 63, 65, 67, 68, 73, 74, 78, 83-86, 106, 109, 110, **JDI** 2-11, 16, 17, 21, 26, 27, **JDM** 7
FP-RE28919	**JD** 63, **JDI** 21
FP-RE28919WP	**JD** 63, **JDI** 21
FP-RE28966	**JD** 63, 67, **JDI** 16, 21
FP-RE29859	**JD** 106, **JDM** 7
FP-RE30250	**JD** 27, 50, 52, 83, 85, **JDI** 2, 4, 8, 10
FP-RE31617	**JD** 29, 30, 52, 53, 61, 63, 65, 83, 84, 102, 104, 106, 108, **JDI** 4-7, 10-12, 19-22, 25, **JDM** 1-8
FP-RE33115	**JD** 28, 51, 53, 84, 86, **JDI** 3, 6, 9, 11
FP-RE33705	**JD** 10, 12, 18, 23, 31, 38, 41, 50-53, 66, 104, 128, 129, **JDI** 8-11, 15, 22, 43, 44, **JDM** 16
FP-RE34009	**JD** 127, **JDI** 42
FP-RE35647	**JD** 115, 116, **JDI** 29, 30
FP-RE35647WS	**JD** 115, 116, **JDI** 30
FP-RE36935	**JD** 29, 30, 52, 83, **JDI** 4, 5, 7, 10
FP-RE36939	**JD** 53, 63, 65, 84, 106, **JDI** 6, 11, 21, **JDM** 7
FP-RE37416	**JD** 127, **JDI** 42
FP-RE37416WS	**JD** 127, **JDI** 42
FP-RE37417	**JD** 127, **JDI** 42
FP-RE37503	**JD** 67, 68, 109, 110, **JDI** 16, 17, 26, 27
FP-RE37715	**JD** 63, 65, 67, 68, **JDI** 16, 17
FP-RE37715WS	**JD** 63, 65, 67, 68, **JDI** 16, 17
FP-RE38555	**JD** 106, 109, 110, **JDI** 21, 26, 27
FP-RE38555WS	**JD** 106, 109, 110, **JDI** 26, 27
FP-RE38558	**JD** 38
FP-RE38558WS	**JD** 38
FP-RE38568	**JD** 73
FP-RE38568WS	**JD** 73
FP-RE38570	**JD** 18
FP-RE38570WS	**JD** 18
FP-RE38847	**JD** 38
FP-RE38848	**JD** 18
FP-RE38849	**JD** 73
FP-RE38850	**JD** 23, 27-30, **JDI** 2-5, 7
FP-RE38851	**JD** 41, 42, 50-53, 63, 65, 67, 68, **JDI** 8-11, 16, 17
FP-RE38852	**JD** 78-80, 83-86, 109, 110, **JDI** 21, 26, 27
FP-RE38857	**JD** 41, 42, 50-53, **JDI** 8-11
FP-RE38857WS	**JD** 41, 42, 50-53, **JDI** 8-11
FP-RE38858	**JD** 83-86
FP-RE38858WS	**JD** 83-86
FP-RE38859	**JD** 78
FP-RE38859WS	**JD** 78
FP-RE39134	**JD** 114-121, 128, 129, **JDI** 28-36, 43, 44, **JDM** 9-12, 16
FP-RE40476	**JD** 127, **JDI** 42
FP-RE42211	**JD** 18, 23, 38, 41, 42, 50-53, 60, 63, 65, 67, 68, 73, 78, 85, 95, 109, 110, **JDI** 8-11, 16, 17, 26, 27
FP-RE42231	**JD** 127, **JDI** 42
FP-RE42231WP	**JD** 127, **JDI** 42
FP-RE43273	**JD** 60, 95
FP-RE45517	**JD** 106, 109, 110, **JDI** 21, 26, 27, **JDM** 7
FP-RE47336	**JD** 113-116, **JDI** 29, 30, **JDM** 9
FP-RE48368	**JD** 28, 51, 53, 84, **JDI** 3, 6, 9, 11
FP-RE48368WP	**JD** 28, 51, 53, 84, **JDI** 3, 6, 9, 11
FP-RE48380	**JD** 114, 116, **JDI** 30, **JDM** 9
FP-RE48469	**JD** 65, 106
FP-RE48469WP	**JD** 65, 106
FP-RE48721*	**JD** 29, **JDI** 5
FP-RE48724*	**JD** 30, **JDI** 7
FP-RE48739	**JD** 115, 116, **JDI** 29, 30, **JDM** 9
FP-RE48786	**JD** 30, 61, 66, 102, 108, **JDI** 7, 12, 15, 19, 20, 25, **JDM** 1-4, 6, 8
FP-RE500023	**JD** 27-30, 50-53, 83-86, **JDI** 2-11
FP-RE500024	**JD** 61-68, 102, 104, 106, 108-110, **JDI** 12-14, 16, 17, 19-22, 25-27, **JDM** 2-8
FP-RE500737*	**JD** 61, 62, 64, 66, 102-104, 108, **JDI** 12-15, 20, 22, 25
FP-RE503528	**JD** 118, 119, 121, **JDI** 32-34, 36, **JDM** 10, 11
FP-RE505100	**JD** 61, 62, 64, 66, 102, 108, **JDI** 12-15, 19, 25, **JDM** 1-5
FP-RE505101	**JD** 64, 104, **JDI** 14, 22, **JDM** 2
FP-RE507850	**JD** 61, 62, 66, **JDI** 12, 13, 15, 19, 20, 25
FP-RE507852	**JD** 27-30, 50-53, 61-63, 65-68, 83-86, 101, 102, 105-110, **JDI** 2-13, 15-19, 21, 23-27, **JDM** 1, 3-5, 7, 8
FP-RE507920	**JD** 61, 62, 64, 66, 102, **JDI** 12-15, 19, 25, **JDM** 1-5
FP-RE508156*	**JD** 118, 119, 121, **JDI** 32, 33, 36, **JDM** 11
FP-RE50868	**JD** 115, 116, **JDI** 29, 30, **JDM** 9
FP-RE50868WP	**JD** 115, 116, **JDI** 29, 30, **JDM** 9
FP-RE50978	**JD** 23, 27-30, **JDI** 2-7
FP-RE50978WS	**JD** 23, 27-30, **JDI** 2-7
FP-RE516291*	**JD** 118, 119, 121, **JDI** 32, 33, 36, **JDM** 11
FP-RE521350	**JD** 18, 23, 27-30, 38, 41, 42, 50-53, 63, 65, 67, 68, 73, 74, 78, 83-86, 106, 109, 110, **JDI** 2-11, 16, 17, 21, 26, 27, **JDM** 7
FP-RE526754	**JD** 18, 23, 27-30, 38, 41, 42, 50-53, 63, 65, 67, 68, 73, 74, 78, 83-86, 106, 109, 110, **JDI** 2-11, 16, 17, 21, 26, 27, **JDM** 7
FP-RE527235	**JD** 18, 23, 27-30, 38, 41, 42, 50-53, 63, 65, 67, 68, 73, 74, 78, 83-86, 106, 109, 110, **JDI** 2-11, 16, 17, 21, 26, 27, **JDM** 7
FP-RE527236	**JD** 18, 23, 27-30, 38, 41, 42, 50-53, 63, 65, 67, 68, 73, 74, 78, 83-86, 106, 109, 110, **JDI** 2-11, 16, 17, 21, 26, 27, **JDM** 7
FP-RE529318*	**JD** 124-126, **JDI** 37-39, **JDM** 13-15
FP-RE529319	**JD** 117-121, 124-126, **JDI** 31-33, 35-39, **JDM** 10-15
FP-RE529320*	**JD** 117-121, 124-126, **JDI** 31-33, 35-39, **JDM** 10-15
FP-RE53073	**JD** 65, 106, **JDM** 7
FP-RE530787*	**JD** 129, **JDI** 44, **JDM** 16
FP-RE531077*	**JD** 124-126, **JDI** 37-39, **JDM** 13-15
FP-RE53422	**JD** 95, 98, 99, 113-116, **JDI** 29, 30, **JDM** 9
FP-RE54883	**JD** 63, 65
FP-RE55343	**JD** 11, 23, 29, 30, 41, 50, 52, 53, 63, 65, 72-74, 78, 83-85, **JDI** 5, 7, 8, 10, 11
FP-RE55475	**JD** 117-121, **JDI** 31-36, **JDM** 10-12
FP-RE55512	**JD** 61, 62, 66, 102, 108, **JDI** 12, 13, 15, 19, 20, 25, **JDM** 1, 3-5
FP-RE56792	**JD** 63, 65, 67, 68, **JDI** 16, 17
FP-RE57186	**JD** 117-121, **JDI** 32-36, **JDM** 10, 11
FP-RE57187	**JD** 117-121, **JDI** 29, 31-36, **JDM** 10, 11
FP-RE57187WS	**JDI** 29
FP-RE57512	**JD** 115, 116, **JDI** 29, 30, **JDM** 9
FP-RE57512WP	**JD** 115, 116, **JDI** 29, 30, **JDM** 9
FP-RE57517	**JD** 115, 116, **JDI** 29, 30, **JDM** 9, 12
FP-RE60005	**JD** 29, 30, 52, 53, 61, 63-66, 83, 84, 101, 102, 104-108, **JDI** 4-7, 10-12, 14, 15, 18-25, **JDM** 1-5, 7
FP-RE60294	**JD** 115, 116, **JDI** 29, 30, **JDM** 9
FP-RE61467WP*	**JD** 29, **JDI** 5
FP-RE61767	**JD** 29, 30, 51-53, 83, 84, **JDI** 3-7, 9-11
FP-RE62658	**JD** 29, 30, 52, 53, 63, 65, 83, 84, **JDI** 4-7, 10, 11
FP-RE62659	**JD** 63, 65
FP-RE62661	**JD** 23, 32, 38, 41, 50-53, 63, 65, 67, 68, 78, 83-86, 106, 109, **JDI** 8-11, 16, 17, 21, 26, 27
FP-RE63915*	**JD** 61, 62, 66, 101-103, 105, 107, 108, **JDI** 12, 13, 15, 18-20, 23-25, **JDM** 1, 3, 5
FP-RE64206	**JD** 115, 116, **JDI** 29, 30
FP-RE64206WS	**JD** 115, 116, **JDI** 29, 30
FP-RE64509	**JD** 118, 119, 121, **JDI** 32, 33, 36
FP-RE65165	**JD** 61, 62, 64, 66, 101-105, 107, 108, **JDI** 12-15, 18-20, 22-25, **JDM** 1-6, 8
FP-RE65168	**JD** 61, 62, 64, 66, 101-105, 107, 108, **JDI** 12-15, 18-20, 22-25, **JDM** 1-6, 8
FP-RE65201	**JD** 29, 30, **JDI** 5-7
FP-RE65908	**JD** 61, 62, 64, 66, 101-105, 107, 108, **JDI** 12-15, 18-20, 22-25, **JDM** 1-6, 8
FP-RE65909	**JD** 61, 62, 64, 66, 101-105, 107, 108, **JDI** 12-15, 18-20, 22-25, **JDM** 1-6, 8
FP-RE65911	**JD** 61, 62, 64, 66, 101-105, 107, 108, **JDI** 12-15, 18-20, 22-25, **JDM** 1-6, 8
FP-RE65912	**JD** 61, 62, 64, 66, 101-105, 107, 108, **JDI** 12-15, 18-20, 22-25, **JDM** 1-6, 8
FP-RE65966	**JD** 64, 104, **JDI** 14, 22, **JDM** 2
FP-RE66082	**JD** 61, 62, 64, 66, **JDI** 12-15
FP-RE66083	**JD** 102-104, 108, **JDI** 19, 20, 22, 25
FP-RE66085	**JDI** 20
FP-RE66271	**JD** 29, 30, 61, 62, 64, 66, 102, 104, 108, **JDI** 5, 7, 12-15, 19, 22, 25, **JDM** 1, 2, 4, 5
FP-RE66820	**JD** 27-30, 50-53, 61-63, 65-68, 83-86, 101, 102, 105-110, **JDI** 2-13, 15-21, 23-27, **JDM** 1, 3-5, 7, 8
FP-RE66968*	**JD** 29, **JDI** 5
FP-RE67426*	**JD** 30, **JDI** 7
FP-RE68318	**JD** 127, **JDI** 42, **JDM** 12
FP-RE68319	**JD** 127, **JDI** 42
FP-RE69840	**JD** 123, 127, **JDI** 42
FP-RE69841	**JD** 127, **JDI** 42
FP-RE69842	**JD** 123, 127, **JDI** 42
FP-RE69845	**JD** 127, **JDI** 42
FP-RE69846	**JD** 114, **JDI** 28
FP-RE69847	**JD** 114, 116, **JDI** 28, 30, **JDM** 9
FP-RE69927	**JD** 127, **JDI** 42
FP-RE70143	**JD** 83, 84, 106, **JDI** 21, **JDM** 7
FP-RE70688	**JD** 118, 119, 121, **JDI** 32, 33, 36
FP-RG22248	**JD** 115, 116, **JDI** 29, 30
FP-R100367	**JD** 116, **JDI** 30
FP-R100569	**JD** 113-115, 118, 119, 121, 124-127, **JDI** 28, 29, 32-34, 36-42, **JDM** 10-15
FP-R100911	**JD** 116, **JDI** 30, **JDM** 12
FP-R101042	**JD** 115, 116, **JDI** 29, 30
FP-R104623	**JD** 116, **JDI** 30
FP-R105346	**JD** 51, 53, 65, 68, 84, 86, 106, 110, 114, 116-121, 128, 129, **JDI** 9, 11, 17, 27, 30-36, 40, 41, 43, 44, **JDM** 10-12, 16
FP-R105714	**JD** 23, 27, 28, 40, 41, 50-53, 77, 78, 83-86, **JDI** 2, 8-11
FP-R108654	**JD** 29, 30, 63, 65, **JDI** 4-7
FP-R109625	**JD** 117, 120, **JDI** 31, 34, 35
FP-R114082	**JD** 61, 62, 65, 66, 101-103, 105-108, **JDI** 12, 13, 15, 18-20, 22-25, **JDM** 1, 3-5, 7, 8
FP-R114083	**JD** 61, 62, 64, 66, 102, 104, 108, **JDI** 12-15, 19, 20, 25, **JDM** 1, 2, 4, 5
FP-R114097	**JD** 63, 65, 106, **JDI** 21
FP-R114157	**JD** 78, 83, 84, 106, 109, 110, **JDI** 21, 26, 27
FP-R115299	**JD** 61, 62, 64, 66, **JDI** 12-15, **JDM** 1-3

* New Item — Check For Availability

Part No.	Line No.
FP-R116281	**JD** 27-30, 50-53, 83-85, **JDI** 2-11
FP-R116463	**JD** 23, 41, 42, 78
FP-R116515	**JD** 61, 62, 64, 66, **JDI** 12-15, **JDM** 1-3
FP-R116516	**JD** 101-105, 107, 108, **JDI** 18-20, 22-25, **JDM** 4-6, 8
FP-R119132	**JD** 118, 119, 121, **JDI** 32-34, 36, **JDM** 10-12
FP-R119360	**JD** 31, 37, 38, 40, 41, 50, 52, 53, 63, 65, 67, **JDI** 8, 10, 11, 16
FP-R119383	**JD** 117-121, **JDI** 31-36, **JDM** 10-12
FP-R119384	**JD** 117-121, **JDI** 31-36, **JDM** 10-12
FP-R119847	**JD** 117-121, **JDI** 31-36, **JDM** 10-12
FP-R119874	**JD** 27-30, 52, 53, 61-66, 83, 84, 101-108, **JDI** 2-7, 10-15, 18-25, **JDM** 1-8
FP-R121193	**JD** 118, 119, 121, **JDI** 32-34, 36, **JDM** 10-12
FP-R121867	**JD** 61-68, 102, 104, 106, 108-110, **JDI** 12-17, 19-22, 25-27, **JDM** 1-8
FP-R122143	**JD** 116, **JDI** 30
FP-R123177	**JD** 61, 62, 66, 101-103, 105, 107, 108, **JDI** 12, 13, 15, 18-20, 23-25, **JDM** 1, 3-5, 8
FP-R123178	**JD** 61, 62, 64, 66, 102-104, 108, **JDI** 12-15, 19, 22, 25, **JDM** 1, 2, 4, 5
FP-R123354	**JD** 101-105, **JDI** 18-20, 22, **JDM** 4-6
FP-R123542	**JD** 61, 62, 64, 66, **JDI** 12-15, **JDM** 1-3
FP-R123543	**JD** 101-105, 107, 108, **JDI** 18-20, 22-25, **JDM** 4-6, 8
FP-R123960	**JD** 61, 62, 64, 66, 102-104, 108, **JDI** 12-15, 19, 22, 25, **JDM** 1-5
FP-R124211	**JD** 117-121, **JDI** 31-36, **JDM** 10, 11
FP-R124230	**JD** 28, 51, 53, 63, 65, 67, 68, 84, 106, 109, 110, **JDI** 3, 6, 9, 11, 16, 17, 21, 26, 27
FP-R125066	**JD** 23, 41, 50-53, 63, 65, 67, 68, 78, 83-86, 106, 109, 110, **JDI** 8-11, 16, 17, 21, 26, 27
FP-R125670	**JD** 115, 116, 118, 119, 121, **JDI** 29, 30, 32-34, 36, **JDM** 10-12
FP-R125754	**JD** 23, 27, 41, 42, 50, 52, 67, 78, 83, 85, **JDI** 2, 4, 8, 10, 16
FP-R125863	**JD** 41, 50-53, 63, 65, 67, 68, **JDI** 8-11, 16, 17
FP-R128557	**JD** 116, **JDI** 30, **JDM** 9
FP-R128558	**JD** 116, **JDI** 30, **JDM** 9
FP-R130573	**JD** 98, 99, 114-116, 118, 119, 121, **JDI** 29, 30, 32-34, 36, **JDM** 9-12
FP-R131794	**JD** 10, 12, 18, 22, 23, 27-31, 38, 40, 41, 50-53, 63, 65, 67, 68, 72-74, 77, 78, 83-86, 106, 109, 110, **JDI** 2-11, 16, 17, 21, 26, 27
FP-R135265	**JD** 127, **JDI** 42
FP-R26058	**JD** 60, 95, 98, 99, 113-121, **JDI** 29-36, **JDM** 10-12
FP-R26084	**JD** 54-56, 60, 87-89, 95
FP-R26115	**JD** 60, 95, 98, 99, 113, 114, 122, 123, 127
FP-R26121	**JD** 51, 53, 60, 63, 65, 67, 68, 83-85, 95, 98, 99, 106, 109, 110, **JDI** 9, 11, 16, 17, 21, 26, 27, **JDM** 7
FP-R26123	**JD** 59, 60, 94, 95
FP-R26124	**JD** 59, 60, 94, 95
FP-R26125	**JD** 10, 12, 18, 23, 27-31, 37, 38, 41, 42, 50-56, 59-61, 63-68, 72, 73, 77, 78, 83-87, 94-96, 98, 99, 101, 102, 104-110, 113, 114, **JDI** 2-12, 14-27, **JDM** 1-8
FP-R26151	**JD** 60, 95, 98, 113, 114
FP-R26163	**JD** 54-56, 60, 87-89, 95, 117, 120, **JDI** 31, 35
FP-R26173	**JD** 54-56, 60, 87-89, 95, 122
FP-R26286	**JD** 52, 53, 63, 65, 95, 101, 105, 107, **JDI** 10, 11, 18, 23, 24
FP-R26297	**JD** 60, 95, 113
FP-R26341	**JD** 60
FP-R26342	**JD** 60, 95
FP-R26343	**JD** 60
FP-R26354	**JD** 54-56, 60, 87-89, 95
FP-R27948	**JD** 95, 98, 99, 106, 122, **JDI** 21
FP-R27951	**JD** 87, 95
FP-R28654	**JD** 59, 60, 94, 95
FP-R30939	**JD** 59, 60, 81, 94-96
FP-R31340	**JD** 87-89, 122
FP-R32050	**JD** 59, 60, 94, 95
FP-R32050WS	**JD** 59, 60, 94, 95
FP-R32123	**JD** 60, 87, 95
FP-R34109	**JD** 60, 95
FP-R34110	**JD** 60, 95
FP-R34753	**JD** 95
FP-R34766	**JD** 18, 27, 28, 38, 50-53, 60, 73, 83, 84, 95, 98, 99, 114, 122, 123, 127, **JDI** 2, 3, 8-11, 42
FP-R35032	**JD** 122
FP-R35034	**JD** 122
FP-R35043	**JD** 122, 123, 127-129, **JDI** 40-44, **JDM** 16
FP-R35053	**JD** 122
FP-R35067	**JD** 122
FP-R35068	**JD** 122
FP-R35104	**JD** 122
FP-R35105	**JD** 122
FP-R35124	**JD** 122
FP-R35124WS	**JD** 122
FP-R35126	**JD** 122
FP-R35155	**JD** 122
FP-R35157	**JD** 122
FP-R35262	**JD** 122
FP-R35263	**JD** 122
FP-R35293	**JD** 122
FP-R35349	**JD** 122, 123, 127, **JDI** 40-42
FP-R35431	**JD** 122, 123, 127, **JDI** 42
FP-R36328	**JD** 122
FP-R36846	**JD** 54-56, 60, 95
FP-R375R	**JD** 98, 99, 114, 122, 123, 127, **JDI** 42
FP-R40088	**JD** 122, 123, 127, **JDI** 42
FP-R40090	**JD** 122
FP-R40366	**JD** 122, 127, **JDI** 42
FP-R40615	**JD** 60, 95, 96, 98, 99
FP-R40615WS	**JD** 60, 95, 96, 98, 99
FP-R40777	**JD** 90, 122
FP-R40979	**JD** 31, 40, 41, 60, 72-74, 77-79, 95
FP-R41425	**JD** 98, 99, 113
FP-R41426	**JD** 98, 99
FP-R42173	**JD** 96, 98, 99, 113
FP-R42182	**JD** 122
FP-R42366	**JD** 122
FP-R42366WS	**JD** 122
FP-R42404	**JD** 98, 99
FP-R42406	**JD** 95, 98, 99, 113, 114, **JDI** 28
FP-R42694	**JD** 54-56, 60, 87, 91, 95, 122
FP-R43117	**JD** 98, 99
FP-R43558	**JD** 95
FP-R43595	**JD** 95, 98, 99, 113, 114, **JDI** 28
FP-R43660	**JD** 95, 98, 99, 113-117, 120, 123, 127, **JDI** 28-31, 35, 42, **JDM** 9, 12
FP-R43679	**JD** 60, 95, 96, 98, 99, 113
FP-R43680	**JD** 60, 95, 96, 98, 99, 113
FP-R43681	**JD** 60, 95, 96, 98, 99, 113
FP-R43751	**JD** 84, 98, 99, 106, 114
FP-R43774	**JD** 95, 98, 99, 113-116, **JDI** 28-30, **JDM** 9
FP-R43787	**JD** 60, 95, 96, 98, 99, 113
FP-R43788	**JD** 60, 95, 96, 98, 99, 113
FP-R43789	**JD** 60, 95, 96, 98, 99, 113
FP-R43883	**JD** 60, 95, 96, 98, 99, 113
FP-R43914	**JD** 98, 99, 114
FP-R44161	**JD** 60, 95
FP-R44174	**JD** 60, 95
FP-R44175	**JD** 60, 95
FP-R44853	**JD** 54-56, 60, 87-89, 91, 122, 123, 127, **JDI** 42
FP-R45003	**JD** 60, 95, 96, 98, 99, 113
FP-R45005	**JD** 60, 95, 96, 98, 99, 113
FP-R45615	**JD** 95
FP-R45616	**JD** 60
FP-R45823	**JD** 122
FP-R45968	**JD** 98, 99
FP-R46158	**JD** 95
FP-R46192	**JD** 60, 95
FP-R463R	**JD** 122
FP-R46479	**JD** 95, 98, 99, 113-116, 118, 119, 121, **JDI** 28-30, 32-34, 36, **JDM** 10, 11
FP-R46903	**JD** 36, 46, 47, 54-56, 59, 60, 71, 81, 82, 87, 94-99, 113, 114, 122, 123, 127, **JDI** 42
FP-R46984	**JD** 95
FP-R47047	**JD** 98, 99
FP-R47153	**JD** 113-121, 127, **JDI** 28-36, 40-42, **JDM** 9-12
FP-R47191	**JD** 23, 32, 41, 50-53, 63, 65, 67, 68, 78, 83-86, 106, 109, **JDI** 8-11, 16, 17, 21, 26, 27, **JDM** 7
FP-R47394	**JD** 98, 99
FP-R48000	**JD** 18, 23, 29, 30, 32, 38, 41, 50-53, 63, 65, 67, 68, 73, 78, 83-86, 102, 104, 108-110, **JDI** 4, 5, 7-11, 16, 17, 19-22, 25-27, **JDM** 4, 5, 8
FP-R48291	**JD** 95, 98, 99
FP-R48292	**JD** 60
FP-R48313	**JD** 123
FP-R48314	**JD** 123
FP-R48350	**JD** 123
FP-R48350WS	**JD** 123
FP-R48635	**JD** 18, 38, 73
FP-R48636	**JD** 23, 41
FP-R48637	**JD** 18, 23, 38, 41, 42, 73, 74, 78
FP-R48638	**JD** 18, 38, 73, 74
FP-R48693	**JD** 95, 98, 99, 123, 127, **JDI** 42
FP-R48767	**JD** 18, 27, 28, 38, 50-53, 60, 63, 65, 67, 68, 73, 74, 83-85, 95, 98, 99, 106, 109, 110, **JDI** 2-4, 6, 8-11, 16, 17, 21, 26, 27, **JDM** 7
FP-R49377	**JD** 87, 89, 95, 98, 99, 113-121, **JDI** 28-36, **JDM** 9-11
FP-R49418*	**JD** 123
FP-R49423	**JD** 123
FP-R49424	**JD** 123, 127, **JDI** 42
FP-R49425	**JD** 123
FP-R49483	**JD** 123, 127, **JDI** 40-42
FP-R49484	**JD** 123, **JDI** 40, 41
FP-R49485	**JD** 123, 127, **JDI** 40-42
FP-R49489	**JD** 123
FP-R49490	**JD** 123, 127, **JDI** 40-42
FP-R49491	**JD** 123, 127, **JDI** 40-42
FP-R49492	**JD** 127, **JDI** 42
FP-R49495	**JD** 123, 127, **JDI** 40-42
FP-R495R	**JD** 54-56, 60, 87-89, 95, 98, 99, 113, 114, 122, 123, 127, **JDI** 28, 42
FP-R49569	**JD** 123, 127, **JDI** 42
FP-R49571	**JD** 123, 127, **JDI** 42
FP-R49697	**JD** 123, 127-129, **JDI** 42-44, **JDM** 16
FP-R49865	**JD** 60
FP-R49866	**JD** 95, 98, 99, 113, 114, 118, 119, 121, **JDI** 32-34, 36, **JDM** 10-12
FP-R501035	**JD** 118, 119, 121, 124-126, **JDI** 37-39, **JDM** 11, 13-15
FP-R501124	**JD** 61, 62, 64, 66, 101-105, 107, 108, **JDI** 12-15, 18-20, 23-25, **JDM** 1-5, 8
FP-R50353	**JD** 95, 98, 99, 113, 114
FP-R50356	**JD** 98, 99, 114
FP-R50357	**JD** 98, 99, 114
FP-R50358	**JD** 98, 99, 114
FP-R50390	**JD** 95, 98, 99, 113, 114, 116, 117, 120, **JDI** 30, 31, 34, 35
FP-R50397	**JD** 98, 99, 113, 114
FP-R50405	**JD** 98, 99, 114, 116, **JDI** 28, 30, **JDM** 9
FP-R50406	**JD** 98, 114, **JDI** 28
FP-R50410	**JD** 95, 98, 99, 113, 114, **JDI** 28
FP-R50411	**JD** 98, 99, 113, 114, **JDI** 28
FP-R50419	**JD** 95, 98, 99, 113, 114, 116, **JDI** 28, 30, **JDM** 9
FP-R504235*	**JD** 124-126, **JDI** 37-39, **JDM** 13-15
FP-R50424	**JD** 117-121, **JDI** 31-36, **JDM** 10-12
FP-R51112	**JD** 18, 23, 38, 41, 42, 73, 78
FP-R51203	**JD** 98
FP-R51603	**JD** 95, 98, 99, 113, 114, 116, 123, 127, **JDI** 30, 40-42
FP-R517073*	**JD** 124-126, **JDI** 37-39, **JDM** 13-15

Part No.	Line No.
FP-R51734	JD 18, 23, 27, 28, 38, 41, 42, 50, 51, 67, 68, 73, 78, 85, 109, 110, JDI 2, 3, 8, 9, 16, 17, 26, 27
FP-R51936	JD 23, 27-30, 41, 50-53, 61, 63-68, 78, 83-86, 98, 99, 102, 104, 106, 108-110, 113-116, 118, 119, 121, 123, 127, JDI 2-12, 14-17, 19, 21, 22, 25-27, 29, 30, 32-34, 36, 40-42, JDM 1, 4, 5, 8-12
FP-R520212	JD 118, 119, 121, JDI 32, 33, 36, JDM 10-12
FP-R520223*	JD 124-126, JDI 37-39, JDM 13-15
FP-R520224*	JD 124-126, JDI 37-39, JDM 13-15
FP-R52049	JD 95, 98, 99, 113, 114, JDI 28
FP-R520706	JD 113
FP-R525767	JD 117-121, JDI 31-33, 35, 36, JDM 10-12
FP-R527285*	JD 124-126, JDI 37-39, JDM 13-15
FP-R527286*	JD 124-126, JDI 37-39, JDM 13-15
FP-R52773	JD 54-56, 60, 90, 95, 98, 99, 113, 114, JDI 28
FP-R527877*	JD 124-126, JDI 37-39, JDM 13-15
FP-R52811	JD 53, 98, 114, 116, JDI 28, 30, JDM 9
FP-R53081	JD 123, 127, JDI 42
FP-R53108	JD 41, 50-53, 61-68, 78, 83-86, 95, 98, 99, 102-104, 106, 108-110, 113-116, JDI 8-17, 19-22, 25-27, 29, 30, JDM 1-6, 8
FP-R53192	JD 122, 123, 127, JDI 42
FP-R533789*	JD 129, JDI 44, JDM 16
FP-R53899	JD 115, 116, 118, 119, 121, JDI 29, 30, 32-34, 36, JDM 9-12
FP-R53901	JD 115, 116, 118, 119, 121, JDI 29, 30, 32-34, 36, JDM 9-11
FP-R54114	JD 28, 30, 51, 53, 61-63, 65-68, 84, 98, 99, 101-103, 105-110, JDI 3, 6, 7, 9, 11-13, 15-21, 23-27, JDM 1, 3-5, 8
FP-R54638	JD 52, 53, 63, 65, 83-86, 106, JDI 11, 21
FP-R54641	JD 29, 30, 51-53, 63, 65, 78, 83-86, 106, 109, 110, JDI 4, 5, 7, 9-11, 21, 26, 27
FP-R55055	JD 98, 99, 114
FP-R55061	JD 98, 99, 114
FP-R55405	JD 23, 27, 28, 41, 50-53, 63, 65, 67, JDI 2, 3, 8-11, 16
FP-R55406	JD 27, 50, 51, JDI 2, 8, 9
FP-R55647	JD 23, 27, 41, 42, 50, 52, 72, 73, 77, 78, 80, 83, 85, JDI 2, 4, 8, 10
FP-R56192	JD 106, 109, 110, JDI 26, 27, JDM 16
FP-R56193	JD 65, 106, 109, 110, JDI 26, 27
FP-R56461	JD 50-53, 65, 67, 68, 83-86, 106, 109, 110, JDI 8-11, 16, 17, 21, 26, 27
FP-R56462	JD 65, 106, JDM 6, 8
FP-R56463	JD 23, 27, 28, 31, 37, 38, 40, 41, 50, 51, 63, 65, 67, 68, 72, 73, 77, 78, 83-86, 106, 109, 110, JDI 4, 6, 10, 11, 21, 27
FP-R56809	JD 50-53, 63, 65, 68, 84-86, 106, 109, 110, JDI 8-11, 17, 26, 27
FP-R56812	JD 51-53, 63, 65, 68, 83-86, 106, 110, JDI 9-11, 17, 21, JDM 7
FP-R56814	JD 63, 67, 106, 109, 110, JDI 16, 26, 27
FP-R56815	JD 63, 65, 67, 68, JDI 16, 17
FP-R56905	JD 84, 106, 110
FP-R57160	JD 38, 41, 42, 50-53, 63, 65, 67, 68, JDI 8-11, 16, 17
FP-R57160S	JD 31, 37, 38, 40-42, 50-53, 63, 65, 67, 68, JDI 8-11, 16, 17
FP-R57450	JD 67, JDI 16
FP-R57451	JD 28, 51, 53, 63, 65, 67, 68, 84, 86, 106, 109, 110, JDI 3, 6, 9, 11, 16, 17, 21, 26, 27
FP-R57504	JD 127, JDI 42
FP-R57517	JD 116, 127, JDI 30, 42
FP-R57771	JD 114-121, JDI 28-36, JDM 9-12
FP-R57851	JD 123
FP-R58222	JD 123, 127, JDI 42
FP-R59294	JD 95, 98, 99, 113, 114, 127, JDI 42
FP-R59343	JD 95, 98, 99
FP-R59894	JD 127, JDI 42
FP-R60197	JD 127, JDI 42
FP-R60537	JD 127, JDI 42
FP-R60724	JD 113, 114, JDI 28
FP-R60746	JD 18, 23, 29, 30, 38, 41, 50-52, 67, 68, 73, 78, 83, 85, 86, 109, 110, JDI 4, 5, 7-10, 16, 17, 21, 26, 27
FP-R61437	JD 114, JDI 28
FP-R61871	JD 10, 12, 17, 23, 29-31, 37, 40, 41, 50-53, 63, 65, 67, 68, 72, 77, 78, 83-86, 101-110, JDI 4-11, 16-27, JDM 4-6, 8
FP-R62410	JD 95, 98, 99, 113, 114, 127, JDI 42
FP-R63982	JD 127, JDI 42
FP-R64451	JD 127-129, JDI 42-44, JDM 16
FP-R64840	JD 95, 98, 99, 113, 114, 127, JDI 42
FP-R65055	JD 113, 114, 116, JDI 28, 30, JDM 9
FP-R65629	JD 127, JDI 42
FP-R65629WS	JD 127, JDI 42
FP-R66093	JD 127, JDI 42
FP-R66452	JD 60, 95, 98, 99, 113-121, JDI 28, 29, 31-36, JDM 9-12
FP-R66453	JD 122, 123, 127-129, JDI 42-44, JDM 16
FP-R69045	JD 127-129, JDI 42, 44, JDM 16
FP-R69415	JD 127, JDI 42
FP-R69418	JD 127, JDI 40-42
FP-R69944	JD 114, JDI 28
FP-R70475	JD 127, JDI 42
FP-R70956	JD 23, 27-30, 40, 41, 50-53, 63, 65, 77, 78, 84-86, 106, JDI 2-11, 21
FP-R70965	JD 114, 116, JDI 28, 30, JDM 9
FP-R71225	JD 114-116, JDI 28-30, JDM 9
FP-R71312	JD 115, 116, 127, JDI 29, 30, 40-42, JDM 9
FP-R71314	JD 116, JDI 30
FP-R71315	JD 114, 116, JDI 28, 30
FP-R71361	JD 114-116, JDI 28-30
FP-R71529	JD 98, 99, 114, JDI 28
FP-R71530	JD 95, 96, 98, 99, 113, 114
FP-R71596	JD 113-117, 120, JDI 28-31, 35, JDM 9, 12
FP-R71732	JD 113-117, 120, 127, JDI 28-31, 35, 40-42, JDM 9, 12
FP-R71917	JD 60
FP-R71918	JD 95, 98, 99, 113-116, 118, 119, 121, JDI 28-30, 32-34, 36, JDM 10, 11
FP-R71919	JD 122, 123, 127, JDI 42
FP-R72328	JD 101, 105, 107, 114-117, 120, 127, JDI 18, 23, 24, 28-31, 35, 40-42, JDM 6, 8, 12, 16
FP-R73064	JD 18, 23, 27, 28, 38, 41, 42, 50, 51, 67, 68, 73, 78, 85, 109, 110, JDI 2, 3, 8, 9, 16, 17, 26, 27
FP-R73521	JD 41, 50-53, 63, 65, 67, 68, JDI 8-11, 16, 17
FP-R74008	JD 114-121, 124-126, JDI 28-39, JDM 9-15
FP-R74194	JD 18, 23, 27, 28, 38, 41, 42, 50, 51, 73, 78, 85, JDI 2, 3, 8, 9
FP-R74195	JD 63, 65, 67, 68, 106, 109, 110, JDI 16, 17, 21, 26, 27, JDM 7
FP-R74354	JD 10, 12, 17, 23, 27-31, 38, 41, 50-53, 63, 65, 73, 74, 77-79, 83-86, JDI 2-11
FP-R74365	JD 122, 123, 127, JDI 40-42
FP-R74464	JD 127, JDI 40-42
FP-R75690	JD 127, JDI 42
FP-R75691	JD 127, JDI 42
FP-R75728	JD 65, 77-79, 83, 84, 106, 109, 110, JDI 21, 26, 27
FP-R75729	JD 18, 23, 27, 28, JDI 2, 3
FP-R76783	JD 122, 123
FP-R77388	JD 114, JDI 28
FP-R77551	JD 113-116, JDI 29, 30, 40, 41
FP-R77640	JD 127, JDI 42
FP-R77640WS	JD 127, JDI 42
FP-R78513	JD 122, 123
FP-R78598	JD 18, 23, 27-30, 38, 41, 42, 50-53, 63, 65, 67, 68, 73, 74, 78, 85, JDI 2-11, 16, 17, 21
FP-R78702	JD 36, 46, 47, 71, 81, 82, 98, 99, 114
FP-R79563	JD 51, 63, 65, 67, 68, 85, 86, 106, 109, 110, JDI 9, 16, 17, 21, 26, 27
FP-R79604	JD 27-30, 41, 50-53, 61, 63-68, 78, 83-86, 106, 109, 110, 113-116, 118, 119, 121, 127, JDI 2-12, 14-17, 21, 26, 27, 29, 30, 32-34, 36, 40-42, JDM 1-3, 6-12
FP-R79605	JD 23, 27, 28, 41, 50-53, 63, 65, 67, 68, 78, 83-86, 106, 109, 110, JDI 2-4, 6, 8-11, 16, 17, 21, 26, 27, JDM 6, 8
FP-R79623	JD 18, 23, 27, 28, 38, 41, 42, 50, 51, 67, 68, 73, 78, 85, 109, 110, JDI 2, 3, 8, 9, 16, 17, 26, 27
FP-R79624	JD 18, 23, 27, 28, 38, 41, 42, 50, 51, 67, 68, 73, 78, 85, 86, 109, 110, JDI 2, 3, 8, 9, 16, 17, 26, 27
FP-R79625	JD 18, 23, 27, 28, 38, 41, 42, 50, 51, 67, 68, 73, 78, 85, 86, 109, 110, JDI 2, 3, 8, 9, 16, 17, 26, 27
FP-R79626	JD 18, 23, 27, 28, 38, 41, 42, 50, 51, 67, 68, 73, 78, 85, 86, 109, 110, JDI 2, 3, 8, 9, 16, 17, 26, 27
FP-R79627	JD 18, 23, 27, 28, 38, 41, 42, 50, 51, 67, 68, 73, 78, 85, 86, 109, 110, JDI 2, 3, 8, 9, 16, 17, 26, 27
FP-R79628	JD 18, 23, 27, 28, 38, 41, 42, 50, 51, 67, 68, 73, 78, 85, 109, 110, JDI 2, 3, 8, 9, 16, 17, 26, 27
FP-R79629	JD 18, 23, 27, 28, 38, 41, 42, 50, 51, 67, 68, 73, 78, 85, 109, 110, JDI 2, 3, 8, 9, 16, 17, 26, 27
FP-R79630	JD 18, 23, 27, 28, 38, 41, 42, 50, 51, 67, 68, 73, 78, 85, 109, 110, JDI 2, 3, 8, 9, 16, 17, 26, 27
FP-R79915	JD 115, 116, JDI 29, 30
FP-R80033	JD 18, 23, 27-30, 38, 41, 42, 50, 51, 73, 78, 83-86, JDI 2-11
FP-R80135	JD 27, 50, 52, 53, 63, 65, 83-86, 117, 120, JDI 2, 8, 10, 11, 31, 35
FP-R80632	JD 67, 68, 106, 107, 109, 110, JDI 16, 17, 21, 24, 26, 27
FP-R80969	JD 123, 127, JDI 40-42
FP-R80970	JD 123, 127, JDI 40-42
FP-R81086	JD 123, 127, JDI 42
FP-R81274	JD 127, JDI 40-42
FP-R81275	JD 11, 18, 23, 27, 29, 30, 32, 38, 41, 50-53, 63, 65, 67, 68, 73, 78, 83-86, 106, 109, 110, JDI 2, 4, 5, 7-11, 16, 17, 21, 26, 27, JDM 6, 8
FP-R82007	JD 115, 116, 118-121, 124-126, JDI 30, 35, 37-39, JDM 12-15
FP-R82050	JD 127, JDI 40-42
FP-R82051	JD 127, JDI 40-42
FP-R82052	JD 106, 114, 127, JDI 28, 42, JDM 7
FP-R82053	JD 123, 127, JDI 42
FP-R82508	JD 95, 98, 99, 114
FP-R82943	JD 127, JDI 40-42
FP-R83020	JD 60, 95, 98, 99, 113, 114, 116, 118, 119, 121, JDI 30, 32-34, 36, JDM 10, 11
FP-R83021	JD 60, 95, 98, 99, 113, 114, 116, 118, 119, 121, JDI 30, 32-34, 36, JDM 10, 11
FP-R83071	JD 28, 41, 42, 51, 68, 86, 109, 110, JDI 3, 9, 17, 26, 27
FP-R84180	JD 127, JDI 42
FP-R84472	JD 115, 116, 118, 119, 121, JDI 29, 30, 32-34, 36, 40, 41, JDM 9-12
FP-R84618	JD 114-116, 118, 119, 121, JDI 29, 30, 32-34, 36, JDM 9-12
FP-R84619	JD 115, 116, 118, 119, 121, JDI 29, 30, 32-34, 36, JDM 9-12
FP-R84976	JD 115, 116, JDI 29, 30, JDM 9
FP-R84977	JD 115, 116, JDI 29, 30, JDM 9

* New Item — Check For Availability

Part No.	Line No.
FP-R85687	**JD** 52, 53, 61, 63-66, 83, 84, 102, 104, 106, 108, **JDI** 4, 6, 10-12, 14, 15, 19-22, 25, **JDM** 7
FP-R86062	**JD** 113, 114, 116, 118, 119, 121, **JDI** 28, 30, 32-34, 36, **JDM** 10-12
FP-R86743	**JD** 115, 116, 118, 119, 121, **JDI** 29, 30, 32-34, 36, **JDM** 10, 11
FP-R87561	**JD** 115-121, **JDI** 29-36, **JDM** 9-12
FP-R87627	**JD** 10, 12, 18, 23, 27, 28, 31, 37, 38, 40-42, 50-53, 63, 65, 67, 68, 73, 74, 78, 83-86, 102, 104, 106, 108-110, 113, 114, **JDI** 2, 3, 8-11, 16, 17, 19, 21, 22, 25-27, **JDM** 4, 5, 7
FP-R87858	**JD** 113-116, **JDI** 29, 30, **JDM** 9
FP-R87858WS	**JD** 113-116, **JDI** 29, 30, **JDM** 9
FP-R88042	**JD** 60, 95, 98, 99, 113, 114
FP-R88043	**JD** 60, 95, 98, 99, 113-116, **JDI** 29, 30
FP-R88044	**JD** 60, 95, 98, 99, 113-116, **JDI** 29, 30
FP-R88045	**JD** 60, 95, 98, 99, 113-116, **JDI** 29, 30
FP-R88397	**JD** 60, 87-89, 95, 98, 99, 113-123, 127, **JDI** 28-36, 42, **JDM** 10-12
FP-R88993	**JD** 116, 118, 119, 121, **JDI** 30, 32-34, 36, **JDM** 9-12
FP-R89219	**JD** 86, 109, 110, **JDI** 26, 27
FP-R89223	**JD** 28, 41, 42, 51, 68, 86, 109, 110, **JDI** 3, 9, 17, 26, 27
FP-R89224	**JD** 28, 41, 42, 51, 68, 86, 109, 110, **JDI** 3, 9, 17, 26, 27
FP-R89879	**JD** 51, 53, 65, 68, 80, 84, 86, 106, 110, 116-121, **JDI** 9, 11, 17, 27, 30-36, **JDM** 10, 11
FP-R90601	**JD** 123
FP-R90602	**JD** 123
FP-R90658	**JD** 18, 23, 27-30, 38, 41, 50-53, 63, 65, 67, 68, 73, 78, 83-85, 101, 105-107, 109, 110, **JDI** 2-11, 16-18, 21, 23, 24, 26, 27
FP-R90692	**JD** 23, 29, 30, 41, 42, 50, 52, 53, 61, 63-66, 78, 83, 84, 102, 104, 106, 108, **JDI** 4-8, 10-12, 14, 15, 19-22, 25, **JDM** 1-8
FP-R91708	**JD** 50-53, **JDI** 8-11
FP-R91822	**JD** 115, 116, 118, 119, 121, **JDI** 29, 30, 32-34, 36, **JDM** 9-12
FP-R91889	**JD** 29, 30, 52, 53, 61, 63-66, 83, 84, 101, 102, 104-108, 128, 129, **JDI** 4-7, 10-12, 14, 15, 18-25, 43, 44, **JDM** 1-8, 16
FP-R92097	**JD** 65, 116, 118, 119, 121, **JDI** 30, 32-34, 36, **JDM** 3, 10, 11
FP-R92352	**JD** 51, 61, 63-68, 102, 104, 108-110, **JDI** 9, 12, 14-17, 19, 20, 22, 25-27, **JDM** 1-6, 8
FP-R93308	**JD** 115, 116, 118, 119, 121, **JDI** 29, 30, 32-34, 36, **JDM** 9-12
FP-R93311	**JD** 115, 116, 118, 119, 121, **JDI** 29, 30, 32-34, 36, **JDM** 9-12
FP-R93346	**JD** 116, **JDI** 30
FP-R93349	**JD** 115, 116, 118, 119, 121, **JDI** 29, 30, 32-34, 36, **JDM** 9-12
FP-R93350	**JD** 115, 116, 118, 119, 121, **JDI** 29, 30, 32-34, 36, **JDM** 9-12
FP-R94419	**JD** 10, 12, 18, 23, 31, 40, 41, 50-53, 63, 65, 67, 72, 77, 78, 83, 84, **JDI** 8-11, 16
FP-R96616	**JD** 116, **JDI** 30
FP-R97341	**JD** 18, 23, 27-30, **JDI** 2-7
FP-R97342	**JD** 38, 41, 42, 50-53, 61-68, **JDI** 8-17, **JDM** 1
FP-R97344	**JD** 73, 74, 78, 83-85, 109, 110, **JDI** 26, 27
FP-R97345	**JD** 78
FP-R97346	**JD** 51, 53, 84, 114, 116, **JDI** 9, 11, 28, 30
FP-R97347	**JD** 114, 116, **JDI** 28, 30, **JDM** 9
FP-R97348	**JD** 51, 53, 65, 68, 84, 86, 110, 114, **JDI** 9, 11, 17, 27
FP-R97350	**JD** 18, 23, 27, 28, 38, 41, 50-53, 67, 68, 73, 78, 85, 109, 110, **JDI** 2, 3, 8-11, 16, 17, 26, 27
FP-R97351	**JD** 10, 12, 18, 23, 27, 28, 31, 38, 40, 41, 50-53, 63, 65, 67, 68, 72, 73, 78, 83-86, 106, 109, 110, **JDI** 2, 3, 8-11, 16, 17, 21, 26, 27
FP-R97352	**JD** 23, 27-30, 41, 50-53, 63, 65, 67, 68, 78, 83-86, 106, 109, 110, **JDI** 2-11, 16, 17, 21, 26, 27
FP-R97354	**JD** 50-52, **JDI** 8-10
FP-R97356	**JD** 23, 27-30, **JDI** 2-7
FP-R97454	**JD** 27-30, 38, 41, 50-53, 63, 65, 67, 68, 78, 83-86, 106, 109, 110, **JDI** 2-11, 16, 17, 21, 26, 27
FP-R97455	**JD** 23, 27-30, 37, 38, 41, 50-53, 63, 65, 72, 83, 84, **JDI** 2-11
FP-R97490	**JD** 29, 30, 52, 53, 61, 63-66, 83, 84, 102, 104, 106, 108, **JDI** 4-7, 10-12, 14, 15, 19-22, 25, **JDM** 1-5, 7
FP-R97492	**JD** 29, 30, 52, 53, 61, 63-66, 83, 84, 102, 104, 106, 108, **JDI** 4-7, 10-12, 14, 15, 19-22, 25, **JDM** 1-5, 7
FP-R98062	**JD** 29, 30, 42, 52, 53, 61, 63-66, 78, 83, 84, 102, 104, 106, 108, **JDI** 4-7, 10-12, 14, 15, 19-22, 25, **JDM** 1-8
FP-R98063	**JD** 52, 53, 61, 63-66, 83, 84, 102, 104, 106, 108, **JDI** 4, 6, 10-12, 14, 15, 19-22, 25, **JDM** 7
FP-R98335	**JD** 52, 53, 61, 63-66, 83, 84, 102, 104, 106, 108, **JDI** 4, 6, 10-12, 14, 15, 19-22, 25, **JDM** 7
FP-R98460	**JD** 10, 12, 18
FP-R98461	**JD** 31, 38
FP-R98462	**JD** 72-74
FP-R98471	**JD** 65, 106, 110, **JDI** 27
FP-R98484	**JD** 106, **JDI** 21
FP-R98485	**JD** 106, **JDI** 21
FP-R98486	**JD** 63, 65, 67, 68, **JDI** 16, 17
FP-R98487	**JD** 63, 65, 67, 68, **JDI** 16, 17
FP-R98488	**JD** 63, 65, 67, 68, 106, 109, **JDI** 16, 17, 21, 26
FP-R98489	**JD** 63, 65, 106, 109, 110, **JDI** 21, 26, 27
FP-R98527	**JD** 61, 62, 64, 66, 101-105, 107, 108, 114-121, **JDI** 12-15, 18-20, 22-25, 28-34, 36, 40, 41, **JDM** 1, 4, 5, 9-12
FP-R98834	**JD** 109, 110, **JDI** 26, 27
FP-R99464	**JD** 116, **JDI** 30
FP-R99785	**JD** 127, **JDI** 40-42
FP-SK13310	**JD** 122, 123, 127, **JDI** 40-42
FP-SK49025	**JD** 60, 95, 98, 99, 113-117, **JDI** 29-31, **JDM** 9
FP-SK67942	**JD** 10-12, 18, 22, 23, 27-31, 37, 38, 41, 42, 50-53, 63, 65-68, 72-74, 77-80, 83-86, 106, 109-111, **JDI** 2-11, 16, 17, 21, 26, 27
FP-SLR2378	**JD** 95, 98, 99
FP-SLR2388	**JD** 23, 41, 42, 78
FP-SLR2482	**JD** 122
FP-SLR2497	**JD** 18, 38, 73
FP-SLR2498	**JD** 122
FP-SLR2515	**JD** 22, 23, 40, 41, 77-79
FP-SLR2520	**JD** 27, 28, 50-53, 60, 63, 65, 67, 68, 83-85, 95, 98, 99, 106, 109, 110, **JDI** 2-4, 6, 8-11, 16, 17, 21, 26, 27, **JDM** 7
FP-SL11M	**JD** 5, **JDI** 1
FP-SL2084	**JD** 36, 71
FP-SL2279	**JD** 46, 81
FP-SL2454	**JD** 47, 82
FP-SL2688	**JD** 10, 12, 31
FP-SL2689	**JD** 10, 12, 31
FP-S16255	**JD** 130
FP-S2286	**JD** 130
FP-S631	**JD** 130
FP-S911B	**JD** 130
FP-T13119	**JD** 60, 87-89, 95, 123
FP-T20034*	**JD** 18, 23, 27, 28, 38, 41, 42, 50, 51, 67, 68, 73, 78, 85, 109, 110, **JDI** 2, 3, 8, 9, 16, 17, 26, 27
FP-T20055	**JD** 18, 23, 41, 50, 67, 73, 78, 85, **JDI** 8, 16
FP-T20073	**JD** 10, 12, 18, 23, 27-31, 37, 38, 41, 42, 50-53, 63, 65, 67, 68, 72-74, 77, 78, 85, 86, 106, 109, 110, **JDI** 2, 3, 5, 7-11, 16, 17, 26, 27
FP-T20075	**JD** 32, 40, 41, 67, 68, **JDI** 16, 17
FP-T20077	**JD** 10, 12, 18, 23, 27, 28, 31, 37, 38, 41, 42, 50, 51, 54-56, 60, 67, 68, 72, 73, 77, 78, 85-87, 95, 96, 98, 99, 109, 110, 113, 114, 117-121, **JDI** 2, 3, 8, 9, 16, 17, 26, 27, 31-36, **JDM** 10-12
FP-T20111	**JD** 22, 23
FP-T20129	**JD** 41, 42, 115-121, **JDI** 29-36, **JDM** 9-12
FP-T20215	**JD** 10, 12, 18, 22, 23, 27-31, 37, 40-42, 50-53, 63, 65, 67, 68, 78, **JDI** 2-5, 7-11, 16, 17
FP-T20219	**JD** 18, 23, 27, 28, 38, 41, 42, 50-53, 63, 65, 67, 68, 78, 85, 86, **JDI** 2, 3, 8-11, 16, 17
FP-T20243	**JD** 18, 22, 23, 27-30, 40, 50-53, 63, 65, 67, 68, 72-74, 77-79, 83-86, 106, 109, 110, **JDI** 2-11, 16, 17, 21, 26, 27
FP-T20273	**JD** 18, 23, 27, 38, 40, 41, 50, 51, 53, 65, 67, 68, 78, 83, 85, 86, 106, 109, 110, **JDI** 2, 8, 9, 11, 16, 17, 26, 27
FP-T20328	**JD** 22, 23, 27-31, 40, 41, 51-53, 63, 65, 67, 68, 77-79, 83-86, 95, 98, 99, 106, 109, 110, 113-121, 123, 127, **JDI** 2-5, 7-11, 16, 17, 21, 26-34, 36, 40-42, **JDM** 9-12
FP-T20467	**JD** 74, 78, 109, 110, **JDI** 26, 27
FP-T23002	**JD** 22, 31, 40, 73, 77-79
FP-T23132	**JD** 22, 23, 32, 72-74, 77-79
FP-T23471	**JD** 11, 17, 18, 22, 23, 38, 41, 42, 72-74, 77, 78, 80, 85
FP-T23481	**JD** 18, 38, 73
FP-T23481WP	**JD** 18, 38, 73
FP-T23482	**JD** 18, 38, 73
FP-T244	**JD** 16
FP-T24932	**JD** 72-74, 77-79
FP-T25485	**JD** 40, 72-74, 77-79
FP-T26149	**JD** 23, 41, 42, 78
FP-T26321*	**JD** 18, 23, 27, 28, 38, 41, 42, 50, 51, 67, 68, 73, 78, 85, 109, 110, **JDI** 2, 3, 8, 9, 16, 17, 26, 27
FP-T32340	**JD** 18, 38, 73, 74
FP-T32340WS	**JD** 18, 37, 38, 72, 73
FP-T32341	**JD** 23, 41, 42, 78
FP-T32343	**JD** 23, 41, 42, 78
FP-T32343WS	**JD** 23, 41, 42, 77, 78
FP-U13639	**JD** 52, 53, 61-68, 83, 84, 101-108, 113-121, **JDI** 10-25, 29-36, **JDM** 1, 4-6, 8, 10-12
FP-U17409	**JD** 115-121, **JDI** 29-36, **JDM** 10-12, 16
FP-VG414	**JD** 33, 69
FP-VG418	**JD** 21
FP-VG456	**JD** 1, 2, 6, 9, 43, 48
FP-VG570	**JD** 3
FP-VG576	**JD** 8, 13, 14, 39
FP-VG606	**JD** 36, 46, 47, 71, 81, 82
FP-VG635	**JD** 5, **JDI** 1
FP-VG681	**JD** 5, **JDI** 1
FP-VG930	**JD** 1, 2, 6, 9
FP-VK123	**JD** 43, 48
FP-VK142	**JD** 21
FP-VK144	**JD** 5, 21, **JDI** 1
FP-VK144B	**JD** 5, 21, **JDI** 1
FP-VS1430	**JD** 8, 13-15, 25, 39
FP-VS286	**JD** 43, 48
FP-VS356	**JD** 21
FP-VS468	**JD** 5, 19, **JDI** 1
FP-VS622	**JD** 1, 2, 6, 9
FP-VS793	**JD** 5, **JDI** 1
FP-V1326X	**JD** 5, **JDI** 1

Part No.	Line No.
FP-V1629	JD 8, 13, 14, 39
FP-V1634	JD 36, 46, 47, 71, 81, 82
FP-V1635	JD 36, 46, 47, 71, 81, 82
FP-V1676X	JD 19
FP-V1684	JD 21
FP-V1748	JD 21
FP-V3922	JD 8, 13, 14, 39
FP-V4100	JD 59, 94
FP-V428	JD 1, 2, 6, 9
FP-V429	JD 1, 2, 6, 9
FP-V748	JD 43, 48
FP-V800	JD 21
FP-V816	JD 5, JDI 1
FP-V818	JD 19
FP-V954	JD 21
FP-V956	JD 43, 48
FP-W1102P	JD 21
FP-W1102P20	JD 21
FP-W1102P30	JD 21
FP-W1102P40	JD 21
FP-W1102P60	JD 21
FP-W1115CP	JDI 1
FP-W1115CP20	JDI 1
FP-W1115CP30	JDI 1
FP-W1115CP40	JDI 1
FP-W1115CP60	JDI 1
FP-W5589KX	JD 7, 46, 47, 81, 82
FP-W628CP	JD 5
FP-W628CP20	JD 5
FP-W628CP30	JD 5
FP-W628CP40	JD 5
FP-W628CP60	JD 5
FP-100099	JD 130
FP-103319	JD 4, 70, 112
FP-103320	JD 70, 112
FP-10366X	JD 5
FP-107981	JD 130
FP-1090M	JD 33, 45, 69
FP-109080	JD 130
FP-1102P	JD 21
FP-1102P20	JD 21
FP-1102P30	JD 21
FP-1102P40	JD 21
FP-1102P60	JD 21
FP-110855	JD 130
FP-1115CP	JDI 1
FP-1115CP20	JDI 1
FP-1115CP30	JDI 1
FP-1115CP40	JDI 1
FP-1115CP60	JDI 1
FP-112847	JD 46, 47, 54-56, 59, 60, 81, 82, 87, 94, 95, 98, 99
FP-1142M	JD 43, 48
FP-1158M	JD 21
FP-1251M	JD 8, 13-15, 20, 24, 25
FP-129888	JD 130
FP-135GEOHK	JD 10
FP-135GLOHK	JD 10
FP-1394*	JD 5, 19, JDI 1
FP-139988	JD 130
FP-1420CP	JD 33, 45, 69
FP-1420CP10	JD 33, 45, 69
FP-1420CP20	JD 45, 69
FP-1420CP40	JD 33, 45, 69
FP-1424X	JD 33, 45, 69
FP-1450SB	JD 1, 2, 6, 9
FP-1450SB10	JD 1, 2, 6, 9
FP-1450SB20	JD 1, 2, 6, 9
FP-1450SB30	JD 1, 2, 6, 9
FP-145504	JD 130
FP-145551	JD 130
FP-146483	JD 130
FP-147100	JD 130
FP-1475M	JD 3, 7
FP-151900	JD 130
FP-152EORLIFK	JD 18
FP-152EORLOHK	JD 18
FP-152LIFK	JD 18
FP-152LOHK	JD 18
FP-157551	JD 130
FP-164EORLIFK	JD 23
FP-164EORLOHK	JD 23
FP-164LIFK	JD 23
FP-164LOHK	JD 23
FP-164MIFK	JD 23
FP-164MOHK	JD 23
FP-170664	JD 130
FP-179DIFK	JD 27, JDI 2, 4
FP-179DOHK	JD 27, JDI 2, 4
FP-179TIFK	JD 28, JDI 3, 6
FP-179TOHK	JD 28, JDI 3, 6
FP-180GEOHK	JD 31
FP-180GLOHK	JD 31
FP-181213	JD 130
FP-186780	JD 130
FP-1910CP	JD 75, 76
FP-1910CP10	JD 75, 76
FP-1910CP20	JD 75, 76
FP-193136	JD 130
FP-196844	JD 130
FP-20011	JD 70, 112
FP-20014	JD 70, 112
FP-20022	JD 70, 112
FP-200307	JD 130
FP-202EORLIFK	JD 38
FP-202EORLOHK	JD 38
FP-202LIFK	JD 38
FP-202LOHK	JD 38
FP-203933	JD 130
FP-204165	JD 130
FP-205401	JD 130
FP-213079	JD 130
FP-213082	JD 130
FP-215233	JD 130
FP-2155SB	JD 93, 100, 111
FP-215705	JD 130
FP-216484	JD 130
FP-217323	JD 130
FP-217638	JD 130
FP-2180CP	JD 16, 26, 34, 35
FP-2180CP10	JD 16, 26, 34, 35
FP-2180CP20	JD 16, 26, 34, 35
FP-219EORLIFK	JD 41
FP-219EORLOHK	JD 41
FP-219LIFK	JD 41, 42
FP-219LOHK	JD 41, 42
FP-219MIFK	JD 41
FP-219MOHK	JD 41
FP-2204Y	JD 3, 7
FP-2205CP	JD 3, 7
FP-2205CP10	JD 3, 7
FP-2205CP20	JD 3, 7
FP-2205CP30	JD 3, 7
FP-2210SB	JD 3, 7
FP-2210SB10	JD 3, 7
FP-2210SB20	JD 3, 7
FP-2210SB30	JD 3, 7
FP-2210SB40	JD 3, 7
FP-2212600	JD 21
FP-2212601	JD 21
FP-2212603A	JD 21
FP-2214108	JD 5, JDI 1
FP-2241CP10	JD 43, 48, 69
FP-2241CP20	JD 43, 48, 69
FP-2241CP30	JD 43, 48, 69
FP-2242CP10	JD 69
FP-2242CP20	JD 69
FP-2242CP30	JD 69
FP-2243CP10	JD 43, 48, 69
FP-2243CP20	JD 43, 48, 69
FP-2243CP30	JD 43, 48, 69
FP-2244CP10	JD 43, 48, 69
FP-2244CP20	JD 43, 48, 69
FP-2244CP30	JD 43, 48, 69
FP-2244132	JD 21
FP-2244137	JD 21
FP-2279P	JD 46, 81
FP-23500480	JD 70, 112
FP-23500501	JD 70, 112
FP-23500714	JD 70, 112
FP-23501687	JD 70, 112
FP-23502020	JD 70, 112
FP-23502021	JD 70, 112
FP-23502022	JD 70, 112
FP-23504931	JD 70, 112
FP-23504932	JD 70, 112
FP-23504933	JD 70, 112
FP-23504934	JD 70, 112
FP-23504936	JD 70, 112
FP-23505305	JD 70, 112
FP-23505306	JD 70, 112
FP-2350530630	JD 70, 112
FP-235053065	JD 70, 112
FP-23505308	JD 70, 112
FP-23505309	JD 70, 112
FP-235053091	JD 70, 112
FP-2350530910	JD 70, 112
FP-2350530920	JD 70, 112
FP-2350530930	JD 70, 112
FP-235053095	JD 70, 112
FP-23505518	JD 70, 112
FP-23507225	JD 70, 112
FP-23507238	JD 70, 112
FP-23507306	JD 70, 112
FP-23511129	JD 70, 112
FP-23511131	JD 70, 112
FP-23511133	JD 70, 112
FP-23511135	JD 70, 112
FP-23511137	JD 70, 112
FP-23512675	JD 70
FP-23512675WS	JD 70
FP-23512676	JD 112
FP-23512676WS	JD 112
FP-23514965	JD 70, 112
FP-23514970	JD 70, 112
FP-23516636	JD 4
FP-23516871	JD 4
FP-23517217*	JD 70, 112
FP-23517625	JD 4
FP-23517625WS	JD 4
FP-23521992	JD 70, 112
FP-23522026	JD 70, 112
FP-23522070	JD 70, 112
FP-23522475	JD 70, 112
FP-23522497	JD 70, 112
FP-23522521	JD 70, 112
FP-23522525	JD 70, 112
FP-23522534	JD 70, 112
FP-23522535	JD 70, 112
FP-23522947	JD 70, 112
FP-23522949	JD 70, 112
FP-2352294930	JD 70, 112
FP-235229495	JD 70, 112
FP-23522951	JD 70, 112
FP-23522954	JD 70, 112
FP-23522955	JD 70, 112
FP-239DIFK	JD 50, 52, JDI 8, 10
FP-239DOHK	JD 50, 52, JDI 8, 10
FP-239TIFK	JD 51, 53, JDI 9, 11
FP-239TOHK	JD 51, 53, JDI 9, 11
FP-2409Y	JD 70, 112
FP-2425CP	JD 9
FP-2425CP10	JD 9
FP-2425CP20	JD 9
FP-2425CP30	JD 9
FP-2451348E1N	JD 21
FP-24513753	JD 21
FP-24513755	JD 5, JDI 1
FP-24518125	JD 3
FP-2454P	JD 47, 82
FP-253	JD 4
FP-253OH	JD 4
FP-2595A	JD 8, 10, 12-15, 20, 24, 25, 31, 37, 39, 40, 49, 57, 58
FP-2595A10	JD 8, 10, 12-15, 20, 24, 25, 31, 37, 39, 40, 49, 57, 58
FP-2595A20	JD 8, 10, 12-15, 20, 24, 25, 31, 37, 39, 40, 49, 57, 58
FP-2595A30	JD 8, 10, 12-15, 20, 24, 25, 31, 37, 39, 40, 49, 57, 58
FP-2599Y20	JD 8, 10, 12, 13, 15, 20, 25, 31, 39, 49, 57, 58
FP-2601385	JD 10, 12
FP-2601386	JD 31, 37
FP-2601399	JD 96
FP-270EIFK	JD 60
FP-270EOHK	JD 59, 60
FP-270LIFK	JD 60
FP-270LOHK	JD 60

* New Item — Check For Availability

Part No.	Line No.
FP-270RBIFK	JD 60
FP-270RBOHK	JD 60
FP-2755CP	JD 34, 35
FP-276DLPIFK	JD 67, JDI 16
FP-276DLPOHK	JD 67, JDI 16
FP-276DSPIFK	JD 67, JDI 16
FP-276DSPOHK	JD 67, JDI 16
FP-276TIFK	JD 68, JDI 17
FP-276TOHK	JD 68, JDI 17
FP-3K9619	JD 90-92
FP-3R46903	JD 36, 46, 47, 54-56, 59, 60
FP-3000173	JD 130
FP-3000175	JD 130
FP-3002385	JD 130
FP-3005592	JD 130
FP-3006736	JD 130
FP-3006737	JD 130
FP-3007634	JD 130
FP-3007635	JD 130
FP-3007636	JD 130
FP-3007689S	JD 130
FP-3007759	JD 130
FP-3008591	JD 130
FP-3010146	JD 130
FP-3011952	JD 130
FP-3012526	JD 130
FP-3013786	JD 130
FP-3014778	JD 130
FP-3019959	JD 130
FP-3019960	JD 130
FP-3020943	JD 130
FP-3021601	JD 130
FP-3024960	JD 130
FP-3025458	JD 130
FP-3029847	JD 130
FP-303EORLIFK	JD 73
FP-303EORLOHK	JD 73
FP-303LIFK	JD 73
FP-303LOHK	JD 73
FP-3033740	JD 130
FP-3034438	JD 130
FP-3034986	JD 130
FP-3037537	JD 130
FP-3038998	JD 130
FP-3046200	JD 130
FP-3046201	JD 130
FP-3050667	JD 130
FP-3054948	JD 130
FP-3054948B	JD 130
FP-30549486	JD 130
FP-3055069	JD 130
FP-3055099	JD 130
FP-3055145	JD 130
FP-3055145PR	JD 130
FP-3055146	JD 130
FP-3055146PR	JD 130
FP-3055147	JD 130
FP-3055148	JD 130
FP-3056158	JD 130
FP-3058462	JD 130
FP-3064281	JD 130
FP-3064291	JD 130
FP-3064295	JD 130
FP-3064304	JD 130
FP-3064305	JD 130
FP-3064309	JD 130
FP-3064312	JD 130
FP-3064313	JD 130
FP-3064386	JD 130
FP-3064392	JD 130
FP-3064406	JD 130
FP-3066285	JD 130
FP-3066291	JD 130
FP-3066311	JD 130
FP-3066328	JD 130
FP-3067568	JD 130
FP-3067613	JD 130
FP-3067616	JD 130
FP-3067618	JD 130
FP-3069098	JD 130
FP-3069177	JD 130
FP-3069672	JD 130
FP-3070136	JD 130
FP-3070137	JD 130
FP-3070138	JD 130
FP-3070460	JD 130
FP-3070477	JD 130
FP-3070478	JD 130
FP-3071161	JD 130
FP-3072341	JD 130
FP-3072369	JD 130
FP-3073499	JD 130
FP-3073966	JD 130
FP-3074375	JD 130
FP-3074376	JD 130
FP-3074482	JD 130
FP-3076522	JD 130
FP-3084045	JD 130
FP-3084848	JD 130
FP-3129YA20	JD 36, 46, 47, 54-56, 59, 60, 71, 82, 87, 94, 96, 97
FP-3161423	JD 130
FP-3166388	JD 130
FP-3166428	JD 130
FP-3202117	JD 130
FP-3220CP	JD 19, 45
FP-3220CP10	JD 19, 45
FP-3220CP20	JD 19, 45
FP-3220CP30	JD 19, 45
FP-3224CP	JD 19
FP-3224CP10	JD 19
FP-329EORLIFK	JD 78
FP-329EORLOHK	JD 78
FP-329LIFK	JD 78
FP-329LOHK	JD 78
FP-329MIFK	JD 78
FP-329MOHK	JD 78
FP-3349806	JD 130
FP-3349820	JD 130
FP-3414Y20	JD 122
FP-3520CP	JD 5, JDI 1
FP-3520CP10	JD 5, JDI 1
FP-3520CP20	JD 5, JDI 1
FP-3521441	JD 130
FP-3521442	JD 130
FP-359DIFK	JD 83, 85
FP-359DOHK	JD 83, 85
FP-359TIFK	JD 84, 86
FP-359TOHK	JD 84, 86
FP-3605SB	JD 19
FP-3605SB10	JD 19
FP-3605SB20	JD 19
FP-3645CP	JD 5, JDI 1
FP-3645CP10	JD 5, JDI 1
FP-3645CP20	JD 5, JDI 1
FP-3709510	JD 130
FP-3751948	JD 130
FP-3800174	JD 130
FP-3801106	JD 130
FP-3801260	JD 130
FP-3801261	JD 130
FP-3801262	JD 130
FP-3801263	JD 130
FP-3801712	JD 130
FP-3801712WO	JD 130
FP-3801826	JD 130
FP-3803605	JD 130
FP-3803726	JD 130
FP-3803741	JD 130
FP-3803742	JD 130
FP-3803854	JD 130
FP-3819Y20	JD 127, JDI 42
FP-3865237	JD 130
FP-4R46903	JD 71, 81, 82, 87, 94-99, 113, 114, 122, 123, 127, JDI 42
FP-4003M	JD 3, 7
FP-4003M10	JD 3, 7
FP-4003M20	JD 3, 7
FP-4003M30	JD 3, 7
FP-4004M	JD 21
FP-4004M10	JD 21
FP-4004M20	JD 21
FP-4005M	JD 21
FP-4005M10	JD 21
FP-4005M20	JD 21
FP-4039A	JD 51, JDI 9
FP-404A	JD 98, 99
FP-404DEIFK	JD 95
FP-404DEOHK	JD 94, 95
FP-404DLIFK	JD 95
FP-404DLOHK	JD 95, 96
FP-404DMIFK	JD 95
FP-404DMOHK	JD 95
FP-404DRBIFK	JD 95
FP-404DRBOHK	JD 95
FP-404TAEIFK	JD 98, 99
FP-404TAEOHK	JD 98, 99
FP-404TALIFK	JD 98, 99
FP-404TALOHK	JD 98, 99
FP-4045DIFK	JD 63
FP-4045DOHK	JD 63
FP-4045TIFK	JD 65
FP-4045TOHK	JD 65
FP-4058941	JD 130
FP-4058947	JD 130
FP-4058967	JD 130
FP-4058968	JD 130
FP-4058969	JD 130
FP-4089489	JD 130
FP-41339	JD 10, 12, 18, 23, 27, 28, 31, 37, 38, 41, 42, 50, 51, 54-56, 60, 67, 68, 72, 73, 77, 78, 85-87, 95, 96, 98, 99, 109, 110, 113, 114, JDI 2, 3, 8, 9, 16, 17, 26, 27
FP-414DIFK	JD 109, JDI 26
FP-414DOHK	JD 109, JDI 26
FP-414TIFK	JD 110, JDI 27
FP-414TOHK	JD 110, JDI 27
FP-4144M	JD 8, 13
FP-4144M10	JD 8, 13
FP-4144M20	JD 8, 13
FP-4145M	JD 15, 20, 25
FP-4145M10	JD 15, 20, 25
FP-4145M20	JD 15, 20, 25
FP-4145M30	JD 15, 20, 25
FP-4344M	JD 8, 13, 14, 24
FP-4344M10	JD 8, 13, 14, 24
FP-4344M20	JD 8, 13, 14, 24
FP-4345M	JD 15, 25
FP-4345M10	JD 15, 25
FP-4345M20	JD 15, 25
FP-43463A	JD 130
FP-443603*	JD 4, 70, 112
FP-466A	JD 114, JDI 28
FP-466AHPIFK	JD 114, JDI 28
FP-466AHPOHK	JD 114, JDI 28
FP-466DIFK	JD 113
FP-466DOHK	JD 113
FP-466TAEIFK	JD 114, JDI 28
FP-466TAEOHK	JD 114, JDI 28
FP-466TALIFK	JD 114, JDI 28
FP-466TALOHK	JD 114, JDI 28
FP-471NA	JD 70
FP-471NAOH	JD 70
FP-471XH	JD 70
FP-471XHOH	JD 70
FP-4712V	JD 70
FP-4712VOH	JD 70
FP-500A	JD 123, 127, JDI 42
FP-5039KX	JD 21
FP-5051KX	JD 5
FP-5051KX20	JD 5
FP-5051KX40	JD 5
FP-5051KX60	JD 5
FP-5051X	JD 5
FP-5051X20	JD 5
FP-5051X30	JD 5
FP-5051X40	JD 5
FP-5051X60	JD 5
FP-5079X	JD 3
FP-5091KX	JD 19
FP-5091KX30	JD 19
FP-5097C	JD 75, 76
FP-5101016	JD 4
FP-5101101	JD 70, 112
FP-5101120	JD 70, 112
FP-5102316	JD 70, 112
FP-5102317	JD 70, 112
FP-5102318	JD 70, 112

Part No.	Line No.
FP-5102319	**JD** 70, 112
FP-5102648	**JD** 70, 112
FP-5103903	**JD** 70, 112
FP-5104019	**JD** 112
FP-5104081	**JD** 70
FP-5104701	**JD** 4, 70, 112
FP-5108918	**JD** 4
FP-5108919	**JD** 4
FP-5109925	**JD** 4
FP-5111337	**JD** 4, 70, 112
FP-5111339	**JD** 112
FP-5111423	**JD** 70, 112
FP-5111424	**JD** 70
FP-5111467	**JD** 70, 112
FP-5114335	**JD** 70, 112
FP-5115454	**JD** 70, 112
FP-5116072	**JD** 4
FP-5116128	**JD** 4
FP-5116137	**JD** 4
FP-5116140	**JD** 4
FP-5116181	**JD** 4
FP-5116189	**JD** 4
FP-5116196	**JD** 4
FP-5116197	**JD** 4
FP-5116197S	**JD** 4
FP-5116198	**JD** 4
FP-5116224	**JD** 4
FP-5116229	**JD** 4
FP-5116336	**JD** 4
FP-5116341	**JD** 4
FP-5116354	**JD** 4
FP-5117562	**JD** 70, 112
FP-5117563	**JD** 70, 112
FP-5117564	**JD** 70, 112
FP-51175646	**JD** 112
FP-5117565	**JD** 70, 112
FP-5117629	**JD** 70, 112
FP-5120930	**JD** 70, 112
FP-5121071	**JD** 70, 112
FP-5121254	**JD** 4
FP-5121256	**JD** 4
FP-5123250	**JD** 4, 70, 112
FP-5123700	**JD** 70, 112
FP-5124458	**JD** 70, 112
FP-5127821	**JD** 70, 112
FP-5128640	**JD** 4, 70, 112
FP-5128917	**JD** 4
FP-5129101	**JD** 70, 112
FP-5129919	**JD** 4, 70, 112
FP-5130881	**JD** 70, 112
FP-5131329	**JD** 70, 112
FP-5131961	**JD** 4
FP-5132383	**JD** 70, 112
FP-5132803	**JD** 4
FP-5132803WS	**JD** 4
FP-5143108	**JD** 70, 112
FP-5143406	**JD** 70
FP-5143407	**JD** 112
FP-5144019	**JD** 4
FP-5144495	**JD** 70, 112
FP-5144744	**JD** 70, 112
FP-5144846	**JD** 70, 112
FP-5145172	**JD** 4
FP-5147347	**JD** 70, 112
FP-5147424	**JD** 4
FP-5148373	**JD** 70, 112
FP-5148399	**JD** 70, 112
FP-5148440	**JD** 70, 112
FP-5148472	**JD** 70, 112
FP-5148475	**JD** 70, 112
FP-5149234	**JD** 70, 112
FP-5149261	**JD** 70, 112
FP-5149263	**JD** 70, 112
FP-5149264	**JD** 70, 112
FP-5149386	**JD** 70, 112
FP-5149393	**JD** 112
FP-5149452	**JD** 4
FP-514945240	**JD** 4
FP-5149454	**JD** 4
FP-5149455	**JD** 4
FP-5149456	**JD** 4
FP-5149944	**JD** 4
FP-5150289	**JD** 70, 112
FP-5150291	**JD** 70, 112
FP-5150292	**JD** 70, 112
FP-5150302	**JD** 4, 70, 112
FP-5150303	**JD** 4, 70, 112
FP-5150314	**JD** 4, 70, 112
FP-5150325	**JD** 70, 112
FP-5151601	**JD** 4, 70, 112
FP-5154472	**JD** 70, 112
FP-5157274	**JD** 70, 112
FP-5159353	**JD** 70, 112
FP-5159353S	**JD** 70, 112
FP-5160542	**JD** 70, 112
FP-5180250	**JD** 4, 70, 112
FP-5184484	**JD** 70, 112
FP-5185325	**JD** 70, 112
FP-5185327	**JD** 70, 112
FP-5186858	**JD** 4, 70, 112
FP-5188405	**JD** 70, 112
FP-5188406	**JD** 70, 112
FP-5189054	**JD** 70, 112
FP-5192111	**JD** 70, 112
FP-5192496	**JD** 70, 112
FP-5192717	**JD** 70, 112
FP-5192718	**JD** 70, 112
FP-5192874	**JD** 70, 112
FP-5192875	**JD** 70, 112
FP-5192876	**JD** 70, 112
FP-5192877	**JD** 70, 112
FP-5192878	**JD** 70, 112
FP-5192922	**JD** 70
FP-5192923	**JD** 112
FP-5193197	**JD** 70, 112
FP-5193316	**JD** 70, 112
FP-5193477	**JD** 70, 112
FP-5193666	**JD** 70, 112
FP-5193732	**JD** 70, 112
FP-5193733	**JD** 70, 112
FP-5193734	**JD** 70, 112
FP-5193735	**JD** 70, 112
FP-5193738	**JD** 70, 112
FP-5193739	**JD** 70, 112
FP-5193741	**JD** 70, 112
FP-5194073	**JD** 70, 112
FP-5194163	**JD** 70, 112
FP-5194164	**JD** 70, 112
FP-5194826	**JD** 70
FP-5194827	**JD** 70
FP-5195931	**JD** 4
FP-5195948	**JD** 4
FP-5196022	**JD** 70, 112
FP-5196026	**JD** 70, 112
FP-5196755	**JD** 4
FP-5196756	**JD** 4
FP-5196843	**JD** 70, 112
FP-5196852	**JD** 4
FP-5196927	**JD** 70, 112
FP-5197167	**JD** 70, 112
FP-5197860	**JD** 70, 112
FP-5198230	**JD** 70, 112
FP-5198431	**JD** 4
FP-5198468	**JD** 4
FP-5198469	**JD** 4
FP-5198502	**JD** 4
FP-5198503	**JD** 4
FP-5198822	**JD** 4
FP-5198877	**JD** 4
FP-5198899	**JD** 4
FP-519889910	**JD** 4
FP-5198903	**JD** 4
FP-519890310	**JD** 4
FP-519890320	**JD** 4
FP-5198904	**JD** 4
FP-519890410	**JD** 4
FP-519890420	**JD** 4
FP-5199809	**JD** 4
FP-5199871	**JD** 70, 112
FP-531AIFK	**JD** 123
FP-531AOHK	**JD** 123
FP-531DEIFK	**JD** 122
FP-531DEOHK	**JD** 122
FP-531DLIFK	**JD** 122
FP-531DLOHK	**JD** 122
FP-531TIFK	**JD** 123
FP-531TOHK	**JD** 123
FP-5362KX	**JD** 3
FP-5362KX40	**JD** 3
FP-5444KX	**JD** 39
FP-5504KX	**JD** 13-15
FP-5504X	**JD** 13-15
FP-5589KX	**JD** 7, 46, 47, 81, 82
FP-5607KX	**JD** 21
FP-5809KX	**JDI** 1
FP-5809KX20	**JDI** 1
FP-5809KX40	**JDI** 1
FP-5809KX60	**JDI** 1
FP-5832KX	**JD** 25
FP-5834KX	**JD** 36, 71
FP-5835KX	**JD** 8
FP-58952	**JD** 95, 98, 113, 114
FP-5923KX	**JD** 13-15
FP-6068DIFK	**JDI** 21
FP-6068DOHK	**JDI** 21
FP-6068TIFK	**JD** 106, **JDM** 7
FP-6068TOHK	**JD** 106, **JDM** 7
FP-6076A	**JD** 116, **JDI** 30, **JDM** 9
FP-6076ADP	**JD** 116, **JDI** 30, **JDM** 9
FP-6076EIFK	**JD** 115, 116, **JDI** 29, 30, **JDM** 9
FP-6076EOHK	**JD** 115, 116, **JDI** 29, 30, **JDM** 9
FP-6076LIFK	**JD** 115, 116, **JDI** 29, 30, **JDM** 9
FP-6076LOHK	**JD** 115, 116, **JDI** 29, 30, **JDM** 9
FP-617X	**JD** 6, 9
FP-619EIFK	**JD** 127, **JDI** 42
FP-619EOHK	**JD** 127, **JDI** 42
FP-619LIFK	**JD** 127, **JDI** 42
FP-619LOHK	**JD** 127, **JDI** 42
FP-619MIFK	**JD** 127, **JDI** 42
FP-619MOHK	**JD** 127, **JDI** 42
FP-628CP	**JD** 5
FP-628CP20	**JD** 5
FP-628CP30	**JD** 5
FP-628CP40	**JD** 5
FP-628CP60	**JD** 5
FP-644KX	**JD** 48
FP-645KX	**JD** 69
FP-66292	**JD** 130
FP-6632M	**JD** 21
FP-6632M10	**JD** 21
FP-6632M20	**JD** 21
FP-6632M30	**JD** 21
FP-671NA	**JD** 112
FP-671NAOH	**JD** 112
FP-671XH	**JD** 112
FP-671XHOH	**JD** 112
FP-6712V	**JD** 112
FP-6712VOH	**JD** 112
FP-67946	**JD** 130
FP-68365	**JD** 130
FP-68445	**JD** 130
FP-68910	**JD** 130
FP-69521	**JD** 130
FP-69736	**JD** 130
FP-70550	**JD** 130
FP-70772	**JD** 130
FP-7079X	**JDI** 1
FP-7079X30	**JDI** 1
FP-7079X40	**JDI** 1
FP-864340979	**JD** 51-53, 63, 68, 83-86, **JDI** 9-11, 17
FP-8921209	**JD** 4, 70, 112
FP-8921501	**JD** 4
FP-8922221	**JD** 70, 112
FP-8922516	**JD** 70, 112
FP-8923554	**JD** 4, 70, 112
FP-8923814	**JD** 4, 70, 112
FP-8924083	**JD** 70, 112
FP-8924084	**JD** 70, 112
FP-8924354*	**JD** 4, 70, 112
FP-8924355	**JD** 4, 70, 112
FP-8924357	**JD** 4
FP-8924358	**JD** 4
FP-8924359	**JD** 4
FP-8924360	**JD** 4
FP-8924361	**JD** 4
FP-8924439	**JD** 4, 70, 112
FP-8925981	**JD** 4, 70, 112
FP-8926351	**JD** 70, 112

* New Item — Check For Availability

Part No.	Line No.
FP-8927920	**JD** 70, 112
FP-920KX	**JD** 45
FP-920X	**JD** 45
FP-92351	**JD** 130
FP-925740979	**JD** 18, 23, 31, 37, 38, 41, 50-53, 63, 65, 67, 83, 84, **JDI** 8-11, 16
FP-925750411	**JD** 98, 99, 113, 114, **JDI** 28
FP-9259KX	**JD** 25
FP-926KX	**JD** 21
FP-926X	**JD** 21
FP-9320CP	**JD** 21
FP-9320CPA	**JD** 21
FP-9320CPA10	**JD** 21
FP-9320CPA2	**JD** 21
FP-9320CPA20	**JD** 21
FP-9320CPA30	**JD** 21
FP-9320CPA40	**JD** 21
FP-9320CP10	**JD** 21
FP-9320CP20	**JD** 21
FP-9320CP30	**JD** 21
FP-9320CP40	**JD** 21
FP-9324X	**JD** 21
FP-934KX	**JD** 19
FP-934KX20	**JD** 19
FP-934KX30	**JD** 19
FP-934KX60	**JD** 19
FP-935550411	**JD** 98, 99, 114, **JDI** 28
FP-939840979	**JD** 10, 12, 41, 72, 73, 77, 78
FP-944840979	**JD** 23, 27, 41, 50-53, **JDI** 2, 4, 6, 8-11
FP-9620CPA	**JD** 43, 48
FP-9620CPA10	**JD** 43, 48
FP-9620CPA20	**JD** 43, 48
FP-9620CPA30	**JD** 43, 48
FP-9624CPA10	**JD** 43, 48
FP-9624CPA20	**JD** 43, 48
FP-9624CPA30	**JD** 43, 48
FP-9624X	**JD** 43, 48
FP-9759*	**JD** 34, 35, 75, 76, 111
FP-9811BF	**JD** 21
FP-9811BFA	**JD** 21
FP-9981KX	**JDI** 1
KC-380	**JD** 44
MV-1771	**JD** 44
MV-1771C	**JD** 44
MV-1918	**JD** 44
RP-3036	**JD** 44
SL-14M	**JD** 21
SL-15M	**JD** 19
SL-22M	**JD** 3
SL-22Y	**JD** 3
ST-2001	**JD** 8, 13-15, 25, 39, 70
ST-2001BC	**JD** 8, 13-15, 25, 39, 70
ST-2004	**JD** 46, 47, 59, 81, 82, 94
ST-2004BC	**JD** 46, 47, 59, 81, 82, 94
ST-2007	**JD** 122
ST-2011	**JD** 60, 95
ST-2011BC	**JD** 60, 95
VG-5073	**JD** 44
VG-855	**JD** 19
VK-115	**JD** 19
VK-115B	**JD** 19, 70, **JDI** 1
VK-115R	**JD** 19, 70, **JDI** 1
VK-138B	**JD** 10, 12, 18, 23, 27, 28, 31, 37, 38, 41, 42, 50, 51, 54-56, 60, 67, 68, 72, 73, 77, 78, 85-87, 95, 96, 98, 99, 109, 110, 113, 114, **JDI** 2, 3, 8, 9, 16, 17, 26, 27
VK-140	**JDI** 42
VK-144	**JD** 4, 19
VK-144R	**JD** 4, 5, 19, 21, 70, 112, **JDI** 1
VK-174	**JD** 44
VK-174R	**JD** 44
VK-63	**JD** 8, 13-15, 25, 39, 70
VK-66R	**JD** 3, 7, 34-36, 44, 46, 47, 59, 60, 81, 82, 94, 95
VS-510	**JD** 44
V-1434	**JD** 44
WE-196K	**JD** 44
WE-196X	**JD** 44
WE-323KC	**JD** 21
WE-323X	**JD** 21
W244NP	**JD** 44
W-5039KX	**JD** 21
W-5051KX 20	**JD** 5
W-5051KX 30	**JD** 5
W-5051KX 60	**JD** 5
W-5051X	**JD** 5
W-5051X 30	**JD** 5
W-5504KX	**JD** 13-15
W-5809KX	**JDI** 1
W-5834KX	**JD** 36, 71
W-5835KX	**JD** 8
W-5923KX	**JD** 13-15
W-644KX	**JD** 48
W-920KX	**JD** 45
W-920X	**JD** 45
W-9259KX	**JD** 25
W-934KX	**JD** 19
W-934X	**JD** 19
W-9348KX+	**JD** 59, 60, 94-96, 98, 99
1394+	**JD** 5, 19, **JDI** 1
1454M	**JD** 44
1473M	**JD** 44
2134Y	**JD** 44
222-495	**JD** 44
223-291	**JD** 44
224-4165C	**JD** 44
2375CP	**JD** 44
244NP	**JD** 44
245-1437-3	**JD** 21
245-1437-3N	**JD** 21
245-1625-1	**JD** 21, 59, 94
245-1625-1N	**JD** 21
259-103C	**JD** 44
260-1004	**JD** 44
260-1256	**JD** 112
260-1355	**JD** 21
260-1385	**JD** 10, 12
260-1386	**JD** 31, 37
260-1387	**JD** 18
260-1392	**JD** 41, 42, 50, 51, 67, 68, **JDI** 8, 9
260-1395+	**JD** 60
260-1398	**JD** 98
260-1399	**JD** 96
260-1400	**JD** 113, 114
3160CP	**JD** 45
3695RA	**JD** 44
39952	**JD** 51
4092M	**JD** 44
453A	**JD** 19
5070M	**JD** 44
6-2375CP	**JD** 44
6-3695RA	**JD** 44
8649V	**JD** 21
8649V20	**JD** 21
8649XA	**JD** 21
8649XAS	**JD** 21
9759+	**JD** 34, 35, 75, 76, 111

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